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IN THE

Supreme Court of the United States

WESLEY W. HARRIS, *et al.*

Appellants,

v.

ARIZONA INDEPENDENT REDISTRICTING COMMISSION, *et al.*

Appellees.

ON APPEAL FROM THE
UNITED STATES DISTRICT COURT OF ARIZONA

SUPPLEMENTAL JOINT APPENDIX

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An Analysis of the Arizona Independent Redistricting Commission Legislative District Map*

Gary King† Benjamin Schneer‡

February 24, 2012

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*A web appendix to this report can be found at j.mp/az-doj. The methods section of this report (Section 2) overlaps with that from our other report, "An Analysis of the Arizona Independent Redistricting Commission Congressional District Map".

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1 Introduction

We have been retained by the Arizona Independent Redistricting Commission to analyze data from the legislative district maps drawn for the 2011–2012 redistricting cycle and approved by the Commission. In this report, we estimate the extent of racially polarized voting, determine the identification and electability of the minority groups' candidates of choice, and (through a new method we introduce for the first time here) offer one way to evaluate whether stronger districts could have been drawn. We perform these analyses for both the benchmark map and proposed map, which allows for a judgment of whether the proposed map has a retrogressive effect. Our analyses are based on available quantitative information; much supplementary qualitative information will appear in other documents submitted by the Commission.

We have conducted extensive analyses of this redistricting plan, with a large number of individual runs. The main body of this report explains the methodology (Section 2) and then gives the results (Section 3). The appendix gives more results, and our web appendix (at `j.mp/az-doj`) gives much more extensive and detailed results.

Overall, we find that the new voting rights districts have similar levels of racially polarized voting between the baseline and new plans, although there are some differences across the state within each set of districts. On the basis of the quantitative information we have used, it seems straightforward to identify the candidate of choice of the Hispanic community in all but one district and the new districts would seem to have the ability to elect these candidates. We also find that it would be difficult, and unnecessary if it were possible, to draw districts more favorable to minorities. We see no evidence of retrogression.

2 Methodological Approach

In this section, we offer an overview of our methodological approach. We describe the modern methods of ecological inference used to avoid the problem that the secret bal-

lot creates when we attempt to make inferences about individual voting behavior from available data only about groups (Section 2.1).

2.1 Estimating Ethnic Group Voting Behavior: Ecological Inference

The goal of the present analysis is to provide evidence about the voting behavior of different ethnic groups. Direct evidence of this behavior is unavailable because of the secret ballot. Thus, we use modern methods of ecological inference to estimate (rather than determine) individual voting behavior from publicly available VTD-level (i.e., precinct) votes for each of the candidates from aggregated election results as well as population figures from the US Census. We summarize here the methods of ecological inference we use.

In 1953, two methods of ecological inference were introduced — the method of bounds (Duncan and Davis, 1953) and ecological regression (Goodman, 1953). A special case of the method of bounds is known as "homogeneous precinct analysis," which had been used in many court cases: this approach seeks out ethnically homogeneous precincts (100% black or 100% white, or 100% Hispanic) because for those precincts we know for certain the voting behavior of one ethnic group. The assumption behind this method is that the voting behavior observed in homogeneous precincts is identical to that in other areas. The advantage of this method is that it yields completely certain information about some subgroups of voters in some areas; the disadvantage is that the relatively few who live in homogeneous precincts may turnout in different numbers and vote for different candidates in starkly different ways than the vast majority of the population who live in (at least partially) heterogeneous areas. The method of bounds is more general than homogeneous precinct analysis because the former can also provide some information about heterogeneous precincts; it does this in the form of "bounds" or ranges into which the fraction of a minority group voting for a particular candidate must fall.

The second method of ecological inference – ecological regression – ignores the information revealed by the method of bounds and its special case of homogeneous precinct

analysis. Instead, ecological regression gathers hints from statistical information across all precincts. For example, if we find that in areas with more African Americans more votes are cast for the Democrats, then we may be willing to infer that it is the African Americans who are voting for the Democrats. The advantage of this approach is that it uses some information from all precincts. The disadvantage is that the information can be highly misleading: For example, also consistent with the same evidence would be that the (liberal) whites who live in areas with high African Americans concentrations are the ones who are producing more votes for the Democrats. In fact, as an indication of the common problems with this method, ecological regression, unlike the method of bounds, regularly gives impossible answers – such as estimating the percent of Hispanics voting for the Democrats as 160% or −54%.

The method of bounds (or homogeneous precinct analysis) and ecological regression dominated the academic literature and courtroom expert testimony from 1953 until 1997 when the approach known as EI was introduced (King, 1997). This approach was the first to combine the deterministic information from the method of bounds with the statistical information from ecological regression into a single set of estimates. Thus, it uses the statistical information from all precincts, the certain information from homogeneous precincts, and other deterministic information known for certain from other precincts (given in the form of ranges of estimates). Impossible estimates are never produced by this methodology, and all information from all precincts are used in the analysis. Like any indirect method of revealing information that the secret ballot hides, EI is also uncertain to a degree, but it uses more information than any other previous approach.

Since EI was introduced, a variety of other methods have been developed in the academic literature, virtually all of which follow King's practice of including deterministic and statistical information in the same model. For example, Rosen et al. (2001) extend King's method to arbitrarily large numbers of ethnic groups and candidates; we use this method in our work as well as King's original method. Some of these other methods have been collected in the edited volume by King, Rosen and Tanner (2004).

In practice, when we have data we can use to validate the methods, ecological regression and homogeneous precinct analysis tend to be fairly inaccurate in many situations. Studies have shown that uncertainty remains with King's and other subsequent methods, but the estimates are normally superior. Differences among the new methods that include both deterministic and statistical information are, in comparison, relatively minor.

In this case, we use these newer methods to give estimates of the proportion of each ethnic group that votes and, among those voting, the proportion who vote for each of the candidates. We also use King's "tomography plots" and other diagnostic methods that help us discern when adjustments in the methods need to be made, and how much uncertainty remains.

We also use the results from the ecological inference analysis here to measure what we call *district performance*, which is the percent of the voting age population which a given ethnic group needs in order to receive a specified share of the vote — in this case we use 50 or 55 percent as the specified thresholds. We do this under the assumption that voters in a racial group in the district will have the same voting behavior as voters in a racial group from adjacent districts. This directly measures what would happen if the district lines were redrawn in order to move minority voters into (or out of) a district of interest.

2.2 Measuring Voting Strength

To measure voting strength in the new districts, we follow the venerable practice of breaking down votes from available statewide races. In particular, we examined elections in the state of Arizona from 2004 through 2010. These include the 2004 US Presidential Election, 2006 Arizona Secretary of State Election, 2008 US Presidential Election, 2010 Arizona Mine Inspector Election and 2010 Arizona Secretary of State Election. All of these are state or national elections (known in voting rights parlance as "exogenous" elections); changes in district lines are unlikely to influence the vote choice of individual voters in these elections. Minority candidates ran for office in four of these five elections. Specif-

ically, Hispanic candidates served as the Democratic candidate in the 2006 Arizona Secretary of State Election and 2010 Arizona Mine Inspector Election; an African-American candidate served as the Democratic candidate in the 2008 US Presidential Election; a Native American was the Democratic candidate in the 2010 Secretary of State Election. The 2004 US Presidential Election did not include a minority candidate; however, as we show below, the Democratic Presidential candidate appears to be the clear candidate of choice for minority voters in most districts. Across all five elections, the candidate of choice for minority voters lost the statewide election.

Below, we present results for each election separately, as well as an average. As would be expected based on prior history of electoral returns in Arizona, and in other states, the results and our conclusions are fairly similar across these different statewide races.

2.3 An Explication of Sample Ecological Inference Results

We used our approach to ecological inference to determine the extent of racially polarized voting in Arizona as well as the electability of each district's candidate of choice among minority voters. For each legislative district in the existing (i.e., "benchmark") and proposed map, we estimated the turnout for each minority group and the proportion of each minority group's vote for each candidate.

To illustrate our approach, we describe the analysis for a single election occurring in a single legislative district. Thus, Table 1 displays estimates of how each racial group in the proposed Legislative District 2 voted in the 2010 election for Arizona Mine Inspector. Note that in each table the total population in the last column and the total votes in the last row are *observed* while the internal cells are *estimated* by our methodology. The bottom row labeled Total Pop gives the population vote totals computed by aggregating over all VTDs in the district. Similarly, the column labeled Total CVAP lists the share of citizen voting age population comprised by each racial group in the district. Again, this is calculated by simply aggregating over all VTDs in the district.

The internal cells in the table contain estimates from ecological inference. For exam-

Table 1: Mine Inspector 2010 LD 2 (Proposed)

Racial Group	Turnout	D Vote	R Vote	S Vote	Total CVAP
White	0.51	0.43	0.57	0.00	0.49
Hispanic	0.28	0.89	0.10	0.00	0.41
Native American	0.35	0.76	0.23	0.01	0.02
Black	0.18	0.52	0.47	0.01	0.04
Other	0.24	0.56	0.43	0.01	0.04
Total Pop	0.39	0.58	0.42	0.00	

ple, we estimate that 89% (0.89 in the table) of Hispanic citizens in LD 2 voted for the Democratic Candidate and 10% for the Republican candidate (and slightly more than 0% for any third party candidates). Furthermore, we know that Hispanics made up 41% of the district's total population (CVAP) and we estimate that they turned out for the election at a rate of 28%. Looking at the district as a whole, we observe that the Democratic candidate received 58% of the vote.

To judge the level of racial polarization in LD 2, we examine the differences in the voting patterns of whites and Hispanics. In this district, we estimate that the Democratic candidate received 43% of the vote among white voters; on the other hand, the Democrat received 89% of the vote among Hispanic voters. Because of this wide discrepancy along with the fact that the majority of white voters preferred a different candidate than the majority of Hispanic voters, we conclude that racially polarized voting exists in LD 2 for this election.

We now move to an analysis to determine the level of support among the main minority for the candidate of choice, as well as whether the district as a whole is strong enough to elect this candidate. In LD 2 the expected candidate of choice is the Democratic candidate, who is also Hispanic. The data appear to confirm this hypothesis, as 89% of Hispanic voters preferred the Democratic candidate. After judging the level of support for the candidate of choice, we turn to the district wide support for this candidate. In this case, we know that 58% of all voters in proposed LD 2 voted for the candidate of choice. This level of support appears to provide a comfortable margin of victory. Therefore, we conclude

that Hispanics in proposed LD 2 have a clear candidate of choice and furthermore that the district as a whole is likely to elect this candidate.

This example illustrates the method of analysis for a single race in a single district. We conducted this form of analysis for each district in each election of interest. In the sections that follow, we use our estimates for each district and election to assess the level of racial polarization and ability to elect the candidate of choice. The results presented here use the Citizen Voting Age Population (CVAP) totals. We present the same set of estimates using Voting Age Population (VAP) totals in the digital appendix. We have included tables illustrating the estimates for each district and each race in the appendix of this report.

2.4 Evaluating the Potential for Stronger Districts

A natural question to ask when examining any set of proposed districts is whether it is possible to draw districts even more favorable to the minority community without disrupting other essential redistricting criteria, such as one-person-one-vote or maintaining communities of interest. Specifically, we might wish to ask how much would one have to change the composition of a given district in order to meet certain target thresholds in terms of electoral performance? The best way to narrow uncertainty in answering a question like this is to actually draw a huge array of alternative redistricting plans and evaluate those. The Commission has evaluated many other redistricting plans, but given the nearly infinite number of possible districting plans that could be drawn and the nontrivial time and expense involved in drawing new plans, all possibilities can never be evaluated. Thus, we develop here (to our knowledge for the first time) a methodology that can serve as an aid in learning the answer to this question.

What we do is estimate how much a district's composition would have to change in order for the minority candidate of choice to gather 55% (or any other given percentage) of the overall voting strength in the district. To do this, we consider one minority district at a time and move minority or white voters between that district and its geographically

adjacent non-majority minority districts. In our version, we assume that district lines could be adjusted to draw specific types of voters into the districts of interest, no matter how strange the district lines. We thus ignore other redistricting criteria for this analysis. Thus, if our methodology indicates that it is possible to draw a stronger district, it does not mean that the Commission should adopt that districting plan. However, if we find that it is difficult or impossible to draw a stronger district (in the situation where a stronger district were desirable), then we can fairly confidently conclude that spending the time and money to draw new maps in an appropriate way that respects other crucial redistricting criteria would not wind up strengthening the district and so that possibility could be ignored.

We applied this approach to various actual plans and as the districts improved, the measures that we propose here reflected that. Now that the districts seem to have been improved as much as is feasible, it looks unlikely that they could be strengthened much further.

A more detailed outline of our procedure as follows:

1. First, use the methods of ecological inference described above to estimate the voting and turnout behavior for each racial group in every district.

2. For each minority district, determine the list of adjacent non-VRA districts.

3. Move voters between districts:

   (a) If the current total vote share for the candidate of choice is above (say) 55% in the minority district of interest, consider the counterfactual scenario in which the lines were re-drawn so as to remove one main minority voter from the current district and add one non-main minority voter from the adjacent districts.

   (b) If the current total vote share for the candidate of choice is below (say) 55% in the district of interest, we consider the counterfactual scenario in which the lines were re-drawn so as to remove one non-main minority voter from the current district and add one main minority voter from the adjacent district.

4. Recalculate the vote totals for each candidate and check whether the candidate of choice has reached a 55% threshold.

5. Repeat steps 3 and 4 until a 55% threshold has been reached, or until no more members of the group being removed from the current district are left in the district of interest.

The result of this procedure is the construction of a hypothetical district that meets the criteria of electing the candidate of choice by a comfortable margin. By comparing the characteristics of the district as it was with this hypothetically "redrawn" district, we gain an understanding of exactly how much the district would have to be reshaped in order meet a given standard. Furthermore, by examining the ratio of the change in vote share to the population change required to meet the threshold, we gain an idea of how efficient or feasible it would be to redraw the district in this manner. For example, if we have to increase the Hispanic population by 50% in order to gain a 5% boost for the candidate of choice, redrawing the district may not be worth it.

2.5 Sources of Uncertainty

There are several sources of uncertainty in these estimates including estimation uncertainty, fundamental uncertainty, and model dependence. *Estimation uncertainty* occurs because we have a limited set of observations (precincts) to use in estimating how each racial group votes. *Fundamental uncertainty* is the idea that even with a large amount of data there is some degree of randomness in the electoral process. A candidate runs an especially good campaign; the weather makes it difficult for one candidate's supporters to get to the polls; an outside group runs an effective set of attack ads; A scandal hits one of the candidates; this is the stuff of politics and it is modeled in a well-known way as fundamental variability. Finally, *model dependence* is the degree to which changes in modeling assumptions affect our estimates. Models are required in ecological inference because some information is destroyed in the process of aggregation and kept from the

analyst due to the secret ballot.

In different types of statistical problems, each of these sources of uncertainty can play differeffce roles and to differing degrees. Ecological inferences of course have all three sources of uncertainty, but as it happens, it is the model dependence caused by having to estimate voter preferences in the presence of the secret ballot that accounts for the overwhelming fraction of overall uncertainty. Model dependence dwarfs the other two components. Thus, we tune our methods of assessing uncertainty to focusing on model dependence.

To convey the degree of uncertainty in the estimates of turnout and vote share, we use "tomography plots" to accompany the tables. These plots give all information in the data without making any statistical modeling assumptions, as well as summarizing the available statistical information in the data. This enables us to evaluate directly how much information is available in the data and how much is imposed by the statistical model.

One entire tomography plot is needed for each numerical estimate in the corresponding table. For one example, the tomography plot in Figure 1 analyzes the information and uncertainty in the data and our analyses with respect to two unknowns: the percent of Whites (horizontally) and non-Whites (vertically) who vote for the Hispanic candidate in District 3, in each precinct. If these two quantities were known for a precinct, they would appear in the plot as a single dot, and the set of precincts as a set of dots. However, because of the secret ballot, we cannot know any of the exact points with precision: what the plot shows is that the information hidden from us by the secret ballot is directly quantifiable: it turns each precinct's dot into a line. We can think of the dot as being smeared into a line. That smearing represents a loss of information, but much information is retained (and that is uniquely captured by our methods of ecological inference). In particular, we know for certain that the true point representing the percent of whites and non-whites who vote for the Hispanic candidate falls somewhere on the line; we do not know where on the basis of just the information from that precinct, but we know it must be on the line.

For example, consider the bold green line in the plot. We know, based on the observed

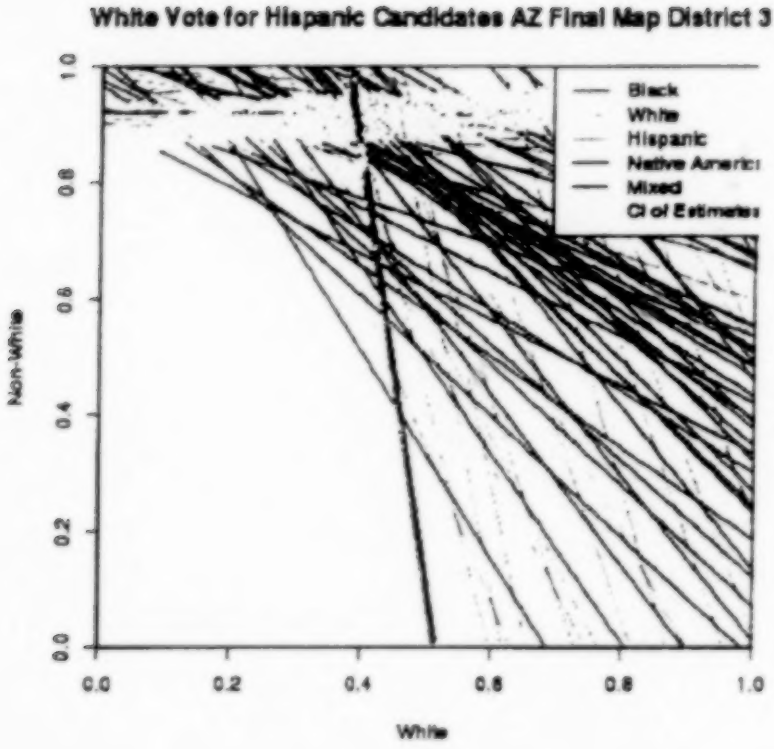

Figure 1: This tomography plot displays the white vote for the Hispanic Candidate in 2010 Mine Inspector Election

data from that precinct (the percent voting and the percent Hispanic), that the point in this plot (representing where the White and non-White vote share is) for this precinct must be some point on the line, but we do not know exactly where on the line this point falls. For this line, we know that the fraction of Whites that vote for the Hispanic candidate must fall somewhere between 0.42 (42 percent) and 0.52 (52 percent). We get these numbers by projecting the line downwards to the horizontal axis. If instead we project the line to the left (vertical) axis, we can see that, for this particular precinct, the range of possible values for the percent of non-Whites voting for the Hispanic candidate could be anywhere from 0% to 100%. That estimate is better than the method of ecological regression, which often gives answers outside that interval, but still we can see that this

precinct is informative with respect only to Whites, not non-Whites.

In this way, each line on a tomography plot captures exactly what we do and do not know about the voting behavior in each precinct — without any uncertainty (assuming only that the data are measured correctly). Our statistical method then uses all this available information as well as the statistical information from ecological regression. Lines that are relatively steep in this particular tomography plot convey a lot of information about the percent of Whites that vote for the Hispanic candidate. Lines that are relatively flat convey a great deal of information about the percent of non-Whites voting for the Hispanic candidate. Lines that cut off the top right or bottom left corner of the plot are informative about both quantities.

The tomography plots reflect what we know about the racial composition of each precinct. If a precinct contains more than 65% of a particular racial group (which we use as an arbitrary cutoff for graphical clarity), then the line on the tomography plot that corresponds to that precinct is color coded to represent the majority group (see the legend in the plot). If no groups comprise 65% or more of the precinct, then no color code is assigned.

Finally, the tomography plots also reflect the results of the ecological inference statistical estimation, that includes information on patterns across precincts. The point estimate (i.e., the exact point on the line that we estimate as the vote share for each group) as well as the confidence intervals are colored yellow. Taken together, these describe the overall estimate of how racial groups voted in the district as a whole. For example, in the tomography plot for District 3 in Figure 1, the mass of yellow in the top left part of the graph means that our estimates indicate that whites likely voted for the Hispanic candidate at a lower rate than did their non-white counterparts in the district.

As importantly, the tomography plots convey the *overall uncertainty* in the available data, and how our statistical estimator uses that information to produce an estimate. In this particular example, the prevalence of flat lines near the top and steep lines near the left convey a great deal of information about where and what we are uncertain about. The

statistical estimator assumes that there is some relationship among all the precincts in a district, and so in all likelihood there exists a cluster of points on the plot somewhere such that when two lines cross or approach one another, the true points on each are close to each other on their respective lines.

To appropriately and completely judge all sources of uncertainty in ecological inferences requires examining a plot like this for each numerical quantity to be estimated. The uncertainty estimates here are far more informative and information rich than sampling based confidence intervals or standard errors, which assume the model is true and only summarize fundamental and estimation uncertainty. Our appendix includes all such plots, calculated for all offices we analyzed, for VAP and CVAP, and for each district.

3 Results for the Legislative Plan

The benchmark legislative districts in the analysis are LDs 2, 13, 14, 15, 16, 23, 24, 25, 27, and 29. The proposed legislative districts in the analysis are LDs 2, 3, 4, 7, 19, 24, 26, 27, 29, and 30.

3.1 Racially Polarized Voting

We now assess the degree of racially polarized voting in both the benchmark and proposed districts. We do this with detailed tables in the appendix (and far more extensive ones in our web appendix), and a graphic summary of all of this information in this report.

We also offer here a summary of the vast array of results in a convenient set of graphs. First, Figure 2 displays the level of racially polarized voting across all races and also provides an easy graphical means of comparing racial polarization between the proposed and benchmark districts.

In each graph in this figure, the horizontal axis represents the main minority vote minus the majority (white) vote for each district. The first five graphs repeat the same analysis with different statewide races, and the bottom right graph summarizes the five

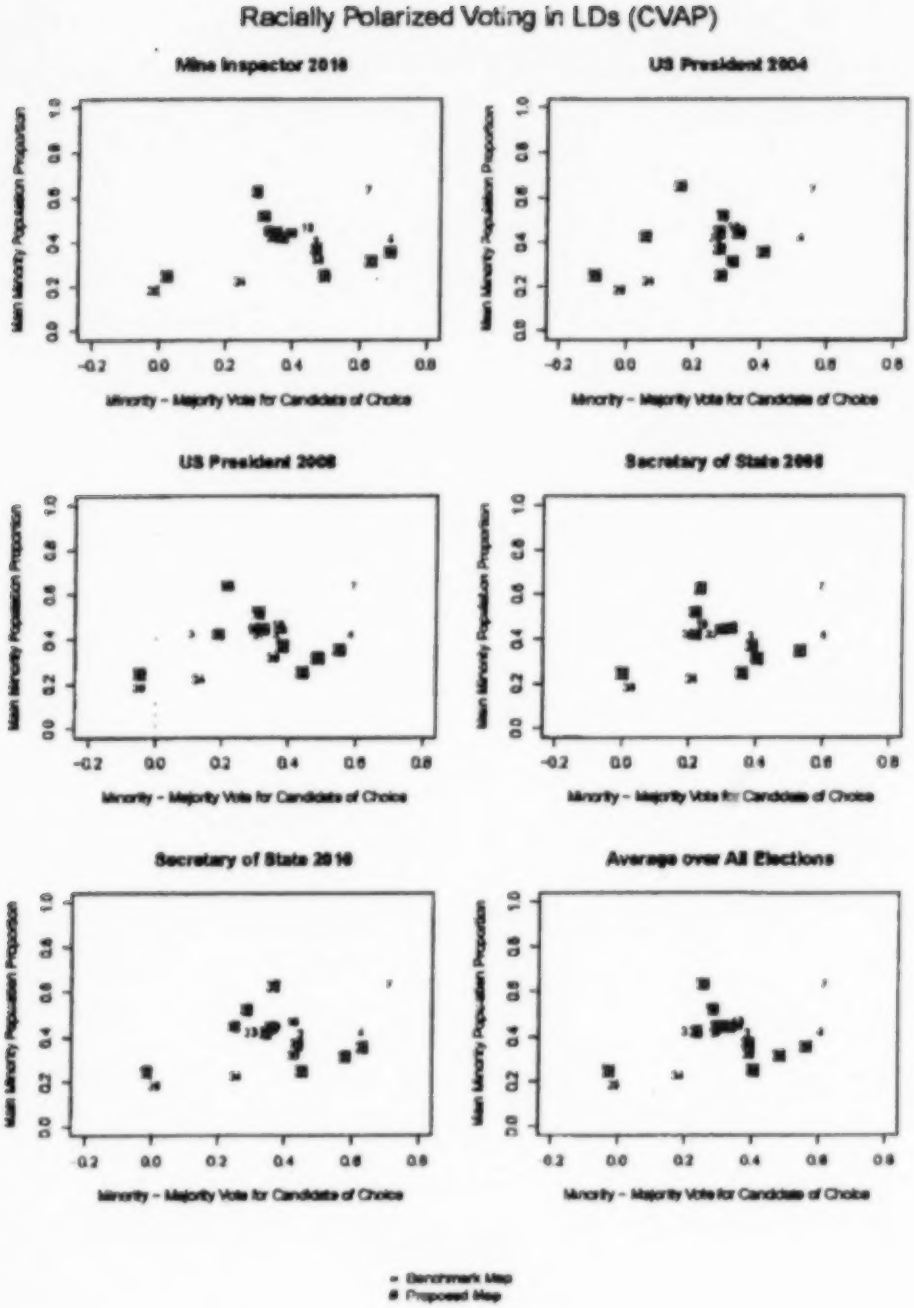
Racially Polarized Voting in LDs (CVAP)
Mine Inspector 2010
US President 2004
US President 2008
Secretary of State 2008
Secretary of State 2010
Average over All Elections
Main Minority Population Proportion
Minority - Majority Vote for Candidate of Choice
= Benchmark Map
= Proposed Map

Figure 2: CVAP Legislative Districts

graphs by presenting an average. The similarity across the five graphs reflects the similarity in this aspect of voting patterns across the different statewide offices. In each of the graphs, the districts located farther to the right exhibit higher levels of racially polarized voting. The vertical axis tracks the share of the main minority population in each district. The orange squares represent the location of the benchmark districts while the blue numbers represent the proposed districts.

As the figure illustrates, the majority of legislative districts in both the benchmark and proposed LDs exhibit racially polarized voting across all races. However, there are some notable exceptions. According to our estimates, proposed LD 26 exhibits little racial polarization in the voting patterns. In fact, for several elections we estimate that the majority group voted for the minority candidate at a higher rate than did the main minority group. Similarly, benchmark LD 15 exhibited very similar behavior in terms of a lack of racially polarized voting.

Several other districts also exhibited lower levels of racial polarization depending on the election. Proposed LDs 2 and 24 exhibited relatively lower levels of polarization in the US President 2004 and US President 2008 elections. Benchmark LD 27 exhibited a noticeably lower level of racial polarization for the US President 2004 election. Nonetheless, as the graph displaying the average results over all five elections demonstrates, all districts but benchmark LD 15 and proposed LD 26 exhibited a level of polarized voting of close to at least 20%.

3.2 Electability of Candidate of Choice

Here we assess the electability of the candidate of choice in both the benchmark and proposed districts.

Figure 3 gives a graphical summary of our results; this figure is particularly crucial because it helps provide answers to the questions that are at the heart of whether the proposed districts are retrogressive or not. In particular, for each election the figure captures (1) the *estimated* level of support among the main minority group in each legislative dis-

trict candidate for the candidate of choice; (2) the *observed* electability of the candidate of choice in each legislative district (in the given statewide elections); and, (3) the degree to which the proposed districts represent improvement or retrogression along dimensions 1 and 2.

Again, each graph in Figure 3 performs an analysis based on a different statewide office, with the average appearing in the bottom right. In each, the horizontal axis captures the estimated (two-party) vote share for the candidate of choice among the main minority population. The vertical axis represents the observed (two-party) vote share for the candidate of choice among all voters in the district. When a district falls in the top right quadrant of a graph it means that that (1) the main minority in the district prefers the candidate of choice and (2) the district as a whole would have elected the candidate of choice.

First, we examine the benchmark districts. Across all elections, we note that benchmark LDs 23, 24 and 25 demonstrate support for the candidate of choice among the main minority group; however, none of these districts ever actually "elect" the candidate of choice in the broken down statewide races. This is evident from the graphs because these three districts fall in the bottom right quadrant rather than the top right quadrant in each graph. Other than these three districts, the remaining benchmark LDs exhibit the ability to elect the candidate of choice. Of course, the absolute difference is small, and a good campaign or an especially good set of candidates may well produce a different outcome. The only issue is that in benchmark LD 15 it is sometimes not clear if the expected candidate of choice is strongly preferred by the main minority group. For example, in the US President 2004 election, we estimate that Hispanics in LD 15 voted for the Democratic candidate at a rate of 53%, which is by no means overwhelming support for the candidate of choice.

Moving to an analysis of the proposed LDs, the most important thing to note is that no districts perform as consistently poorly in terms of ability to elect the candidate of choice as do benchmark LDs 23, 24, and 25. In fact, averaging across all elections it is clear that

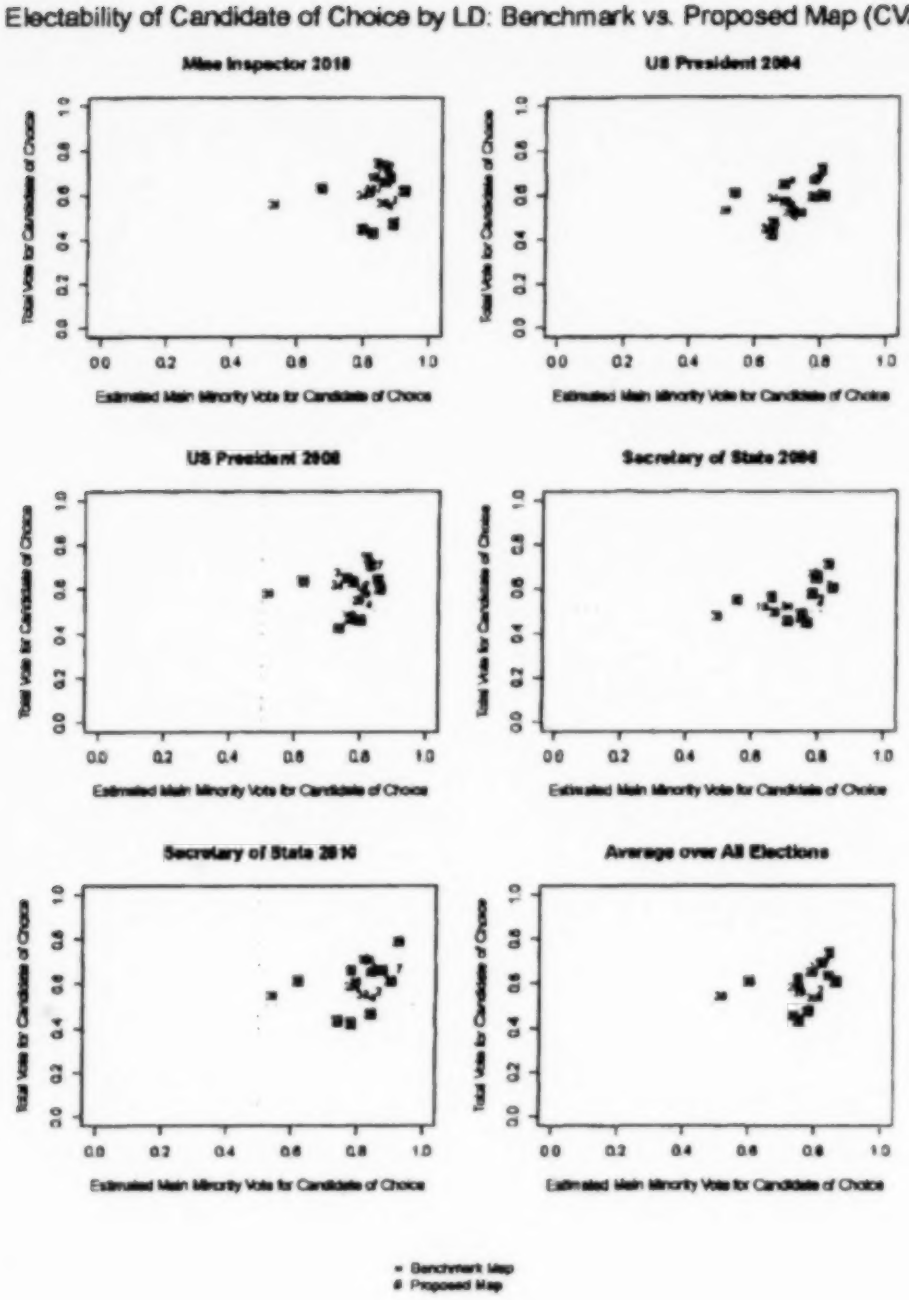

Figure 3: CVAP Legislative Districts

all proposed LDs fall in the upper right hand quadrant. Furthermore, all proposed LDs other than LD 26 demonstrate that there is clear main minority support for the candidate of choice in each election. Other than LD 26, the lowest estimated level of support for the candidate of choice among the main minority group is in LD 19, where Hispanic voters voted for the Democratic candidate for Secretary of State in 2006 at an estimated rate of 60%.

In terms of ability to elect the candidate of choice, the proposed LDs also outperform the benchmark LDs. On average, all districts vote for the candidate of choice at a rate that is substantially higher than in benchmark LDs 23, 24, or 25. Of the five elections we examined, only in the election for Secretary of State 2006 did the overall ability to elect the candidate of choice seem to be in question in more than one district. But even in this case the districts outperformed the benchmark LDs.

LD 26 is clearly the one proposed district for which both the support for the candidate of choice among the main minority group as well as the overall ability to elect comes into question. There are several factors at play in LD 26 worth keeping in mind. First, we have estimated that there is a low level of polarized voting between Hispanic and white voters in the district. Furthermore, because of the nature of the district, our estimates based on ecological inference are relatively uncertain in LD 26. Figure 4 helps illustrate the issue. It displays the tomography plot for the Hispanic vote for the Hispanic Democratic candidate in the 2010 Mine Inspector Election. The horizontal axis displays the vote share for this candidate among Hispanic voters.

Because of the combination of voting patterns along with a relatively small Hispanic population (CVAP), there is a high degree of uncertainty in the estimates for this district. As the tomography plot illustrates, most of the lines are horizontal, which means there is very little concrete information that we can infer about how Hispanic voters are voting. In fact, without performing any inference and making any assumptions, we can only say that the bound on vote share for the Hispanic candidate among Hispanic voters is somewhere between 0 and 1 — that is, we have no certain information at all. While this plot is just

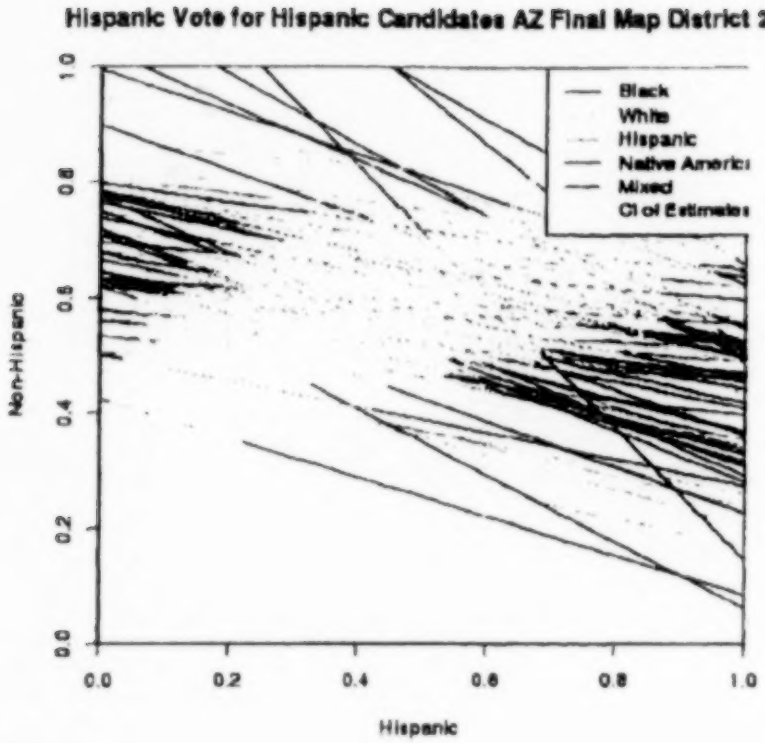

Figure 4: This tomography plot displays the Hispanic vote for the Hispanic Candidate in 2010 Mine Inspector Election

for the Mine Inspector election, the tomography plots for other elections in LD 26 are very similar. A key point is that this lack of information indicates nothing bad about how the district was drawn; it is merely a consequence of the secret ballot in combination with how voters are sorted among the electoral precincts. In particular, the uncertainty surrounding the estimates for LD 26 arise from the combination of relatively low levels of racial polarization with a relatively even distribution of Hispanic voters throughout the precincts of the legislative district. These circumstances lead to the difficulties in pinning down the voting patterns of Hispanic voters in a precise manner.

Based on the empirical evidence available, we conclude that LD 26 does not appear to exhibit polarized voting between whites and Hispanics; furthermore, the level of support

among Hispanic voters for the expected candidate of choice (i.e., the candidate who is an ethnic minority or who appears to be the preferred choice of minority groups) is not clear. As mentioned above, this is not a problem with how the district has been drawn. Despite the caveats, however, the minority candidate still wins in LD 26 in four of the five elections that we examine. The same cannot be said about three of the ten benchmark districts.

We also include in the Appendix the analysis for proposed LD 8. LD 8 is not considered an ability to elect district, but it nonetheless represents an improvement over the benchmark district from the same geographic area, LD 23. In four of the five elections that we examine, proposed LD 8 performs as well or better than benchmark LD 23. The one exception is in the US President 2008 Election when it performs worse by a single percentage point. While neither proposed LD 8 nor benchmark LD 23 reach a 50% threshold for the candidate of choice in any of the elections examined, LD 8 comes within a few percentage points of the threshold repeatedly.

3.3 Could Stronger Districts Have been Drawn?

While the analysis in the previous section revealed that the proposed districts demonstrate a greater ability to elect the candidate of choice than the benchmark districts, we still hope to learn whether even stronger districts could have been drawn. The *performance analysis* that we described above helps answer this question.

Figure 5 summarizes the results from running the performance analysis for each district and election. The full results are available in our web appendix. The horizontal axis in the figure is the change in Hispanic population share required to reach the 55% threshold for the candidate of choice. If a district is plotted to the left of the origin (i.e., left of the vertical dashed line at zero), then initially the district vote totals for the candidate of choice were greater than the 55% threshold and so we envision what would occur if we removed Hispanic voters from the district. If the district is plotted to the right of the origin, then initially the district vote totals for the candidate of choice were less than the

55% threshold and so we envision what would occur if we added Hispanic voters to the district.

In some cases, even if we examine the counterfactual in which we have changed the composition of the district as much as possible (for example, constructing a district that contains 0% or 100% Hispanics) it is still not possible to reach the target threshold. This would occur for example in a district where the candidate of choice receives fewer than 55% of the vote, and even Hispanic voters in the neighboring districts do not favor the candidate of choice. These cases are denoted in red in Figure 5, and they suggest that it would be difficult to strengthen these districts.

The vertical axis represents the ratio of vote share change to population change. This is essentially a measure of "bang for the buck". It tells us the relative amount that we had to alter the composition of the district in order to gain an additional percentage point in vote for the candidate of choice. Thus, a district that is located relatively higher on the vertical axis is one for which changes in the composition of the district result in relatively more changes in voting patterns.

Starting with the Mine Inspector 2010 graph in the upper left hand corner, we see that most districts were already above the 55% threshold. The US President 2004 graph is more interesting; we estimate that for several districts – LD 19, 26, and 29 – it would not be possible to raise the overall vote share for the candidate of choice to 55% by tweaking the district lines. The same is true of several districts when we examine the Secretary of State 2006 election.

The graphs also provide useful information about how difficult it would be to strengthen any districts that appeared weaker in the previous analysis. These graphs do not give any reason to suggest that altering the lines of LD 26 would be an effective way to strengthen the district under anything close to the current redistricting plan, that is while respecting other important redistricting criteria. (This is exacerbated by the fact, discussed above, that LD 26 happens to provide relatively uncertain ecological inferences to begin with.) In two of the five elections, we estimate that it would be impossible to strengthen LD

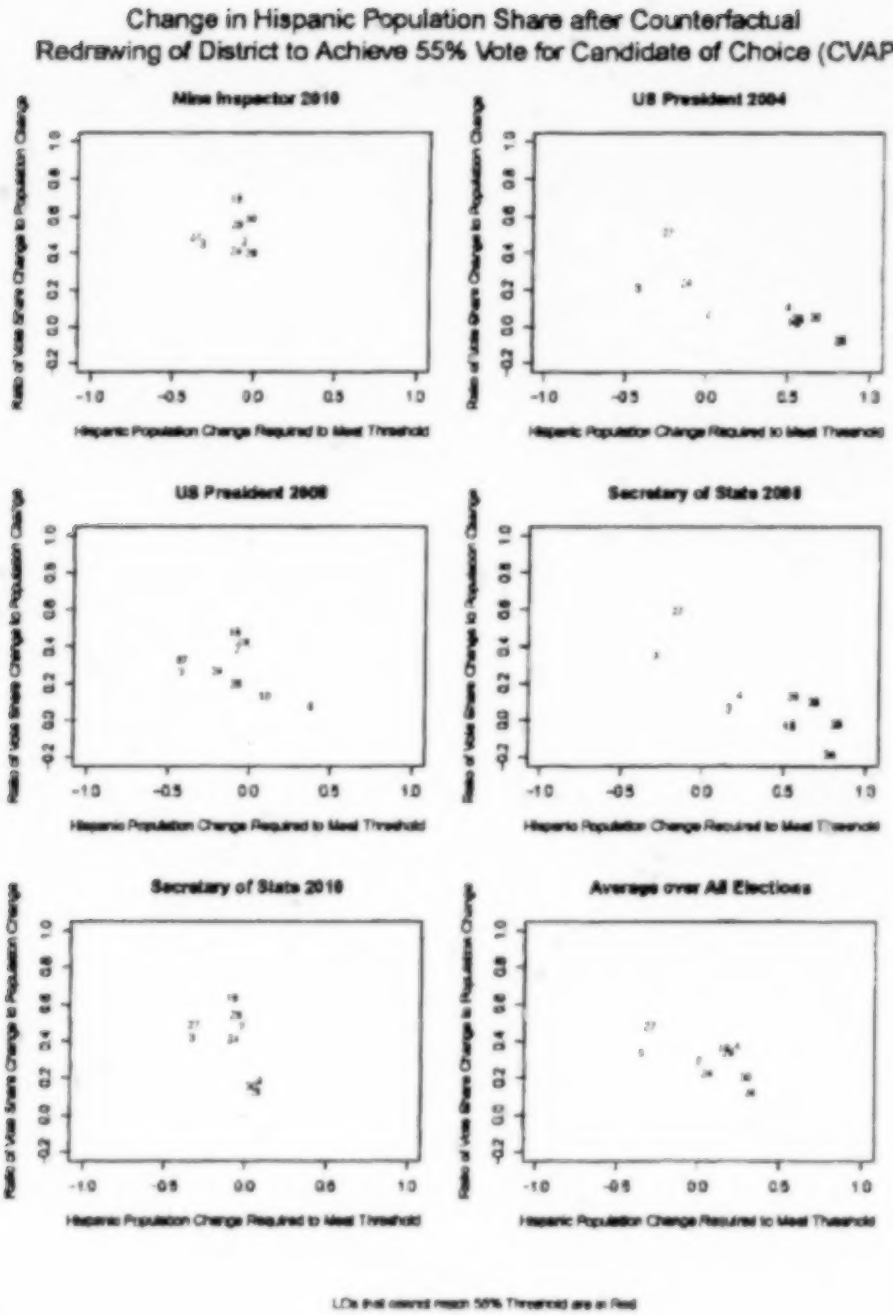
Change in Hispanic Population Share after Counterfactual
Redrawing of District to Achieve 55% Vote for Candidate of Choice (CVAP)
Mine Inspector 2010
US President 2004
US President 2008
Secretary of State 2008
Secretary of State 2010
Average over All Elections
Ratio of Vote Share Change to Population Change
Hispanic Population Change Required to Meet Threshold

Figure 5: CVAP Legislative Districts

26 sufficiently to reach a 55% threshold for the candidate of choice while drawing from adjacent non-VRA districts. In the remaining three elections, the efficiency of redrawing LD 26 appears relatively low. Specifically, we estimate that relatively large changes in the composition of the district would have to occur in order to sufficiently shore up support for the candidate of choice. This is perhaps best illustrated by the graph displaying the average result over all elections. In this graph, LD 26 has the lowest ratio of vote share change to population change required of any of the minority districts.

Plan: Leg_grid_option2

Population Summary Report

DISTRICT	POPULATION	DEVIATION	% DEVN.
1	214,326	1,259	0.59
2	213,650	583	0.27
3	211,705	-1,362	-0.64
4	216,240	3,173	1.49
5	207,722	-5,345	-2.51
6	213,078	11	0.01
7	214,766	1,699	0.80
8	214,912	1,845	0.87
9	213,797	730	0.34
10	211,448	-1,619	-0.76
11	213,593	526	0.25
12	212,943	-124	-0.06
13	211,927	-1,140	-0.54
14	209,601	-3,466	-1.63
15	212,767	-300	-0.14
16	216,157	3,090	1.45
17	215,123	2,056	0.96
18	212,275	-792	-0.37
19	216,386	3,320	1.56
20	213,710	643	0.30
21	213,322	256	0.12
22	212,643	-424	-0.20
23	213,240	173	0.08
24	211,223	-1,844	-0.87
25	212,025	-1,042	-0.49
26	212,295	-772	-0.36
27	210,628	-2,439	-1.14
28	215,420	2,353	1.10
29	213,400	333	0.16
30	211,684	-1,383	-0.65

Total Population	6,392,017
Ideal District Population	213,067
Deviation Statistics	
Population Range	207,722 to 216,396
Ratio Range	1.04
Absolute Range	-5,345 to 3,329
Absolute Overall Range	8,674.00
Relative Range	-2.51% to 1.56%
Relative Overall Range	4.07%
Absolute Mean Deviation	1,470.30
Relative Mean Deviation	0.69%
Standard Deviation	1,950.38

Change report: Final_Leg_Districts_compared_to_Plaintiffs_Plan_X

OLD MAP : FINAL_LEGISLATIVE_DISTRICTS-BLOCK_EQUIVALENCY
NEW MAP : AZ_LEG_SAMPLE_PLAN_X
DISTRICTS CHAN 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 & 30

POPULATION - Final_Leg_Districts_compared_to_Plaintiffs_Plan_X

1	Deviation from Ideal Populatio	3,383	1.6%	-296	-0.1%	-3,679	-1.7%
1	NH White	181,967	84.1%	178,223	83.8%	-3,744	-0.3%
1	Hispanic	24,035	11.1%	23,957	11.3%	-78	0.2%
1	NH Native-American	1,789	0.8%	1,789	0.8%	0	0.0%
1	NH African-American	1,913	0.9%	1,929	0.9%	16	0.0%
1	Total minority	34,484	15.9%	34,548	16.2%	64	0.3%
1	18+ NH White	147,538	86.7%	143,616	86.4%	3,922	-0.3%
1	18+ Hispanic	15,190	8.9%	15,098	9.1%	-92	0.2%
1	18+ NH Native American	1,386	0.8%	1,381	0.8%	-5	0.0%
1	18+ African-American	1,457	0.9%	1,463	0.9%	6	0.0%
1	18+ total minority	22,598	13.3%	22,553	13.6%	-45	0.3%
1	Hispanic CVAP	9,112	6.2%	9,165	6.5%	53	0.2%
1	Hispanic Registration	6,004	4.8%	5,996	4.9%	-8	0.1%
1	2004 Prop 200 Yes	37,196	58.9%	37,243	58.9%	47	0.0%
1	2004 President Dem	23,113	34.8%	23,120	34.8%	7	0.0%
1	2006 Sec of St Dem	17,267	30.7%	17,269	30.6%	2	0.0%
1	2008 President Dem	33,645	34.0%	32,536	33.9%	-1,109	-0.1%
1	2010 Mine Dem	22,349	29.7%	21,585	29.7%	-764	0.0%

2	Deviation from Ideal Populatio	-8,452	-4.0%	-7	0.0%	8,445	4.0%
2	NH White	69,116	33.8%	71,153	33.4%	2,037	-0.4%
2	Hispanic	121,900	59.6%	127,164	59.7%	5,264	0.1%
2	NH Native-American	2,702	1.3%	2,621	1.2%	-81	-0.1%
2	NH African-American	5,909	2.9%	6,508	3.1%	599	0.2%
2	Total minority	135,499	66.2%	141,907	66.6%	6,408	0.4%
2	18+ NH White	60,416	40.6%	62,609	40.3%	2,193	-0.2%
2	18+ Hispanic	78,653	52.8%	81,994	52.8%	3,341	0.0%
2	18+ NH Native American	1,933	1.3%	1,862	1.2%	-71	-0.1%
2	18+ African-American	4,539	3.0%	4,919	3.2%	380	0.1%
2	18+ total minority	88,509	59.4%	92,662	59.7%	4,153	0.2%
2	Hispanic CVAP	45,508	41.1%	49,165	40.9%	3,657	-0.2%
2	Hispanic Registration	32,576	39.1%	33,610	38.8%	1,034	-0.3%
2	2004 Prop 200 Yes	21,517	46.2%	22,955	45.3%	1,438	-0.9%
2	2004 President Dem	26,898	55.1%	29,856	56.2%	2,958	1.1%
2	2006 Sec of St Dem	20,629	54.6%	22,812	55.6%	2,183	1.0%
2	2008 President Dem	33,278	56.8%	35,729	58.1%	2,451	1.3%
2	2010 Mine Dem	26,222	56.7%	27,966	58.1%	1,744	1.4%

3	Deviation from Ideal Populatio	-8,454	-4.0%	84	0.0%	8,538	4.0%

3	NH White	67,222	32.9%	67,598	31.7%	376	-1.1%
3	Hispanic	115,569	56.5%	122,950	57.7%	7,381	1.2%
3	NH Native-American	7,611	3.7%	8,069	3.8%	458	0.1%
3	NH African-American	6,053	3.0%	6,366	3.0%	313	0.0%
3	Total minority	137,391	67.1%	145,554	68.3%	8,163	1.1%
3	18+ NH White	60,946	39.4%	61,063	38.2%	117	-1.2%
3	18+ Hispanic	77,451	50.1%	82,160	51.3%	4,709	1.3%
3	18+ NH Native American	5,111	3.3%	5,431	3.4%	320	0.1%
3	18+ African-American	4,632	3.0%	4,850	3.0%	218	0.0%
3	18+ total minority	93,799	60.6%	98,993	61.8%	5,194	1.2%
3	Hispanic CVAP	55,904	43.1%	58,762	43.7%	2,858	0.6%
3	Hispanic Registration	33,812	41.8%	35,658	42.7%	1,846	0.9%
3	2004 Prop 200 Yes	23,162	39.2%	24,145	39.6%	983	0.4%
3	2004 President Dem	41,158	66.2%	42,212	65.9%	1,054	-0.3%
3	2006 Sec of St Dem	26,231	67.3%	27,043	67.2%	812	-0.1%
3	2008 President Dem	40,355	67.2%	41,077	66.9%	722	-0.4%
3	2010 Mine Dem	30,182	69.1%	30,868	68.9%	686	-0.2%

4	Deviation from Ideal Populatio	-8,924	-4.2%	-281	-0.1%	8,643	4.1%
4	NH White	58,192	28.5%	61,044	28.7%	2,852	0.2%
4	Hispanic	123,594	60.5%	129,372	60.8%	5,778	0.3%
4	NH Native-American	11,559	5.7%	11,593	5.4%	34	-0.2%
4	NH African-American	5,891	2.9%	5,522	2.6%	-369	-0.3%
4	Total minority	145,951	71.5%	151,742	71.3%	5,791	-0.2%
4	18+ NH White	47,013	33.2%	49,515	33.5%	2,502	0.3%
4	18+ Hispanic	78,816	55.7%	82,617	55.9%	3,801	0.2%
4	18+ NH Native American	7,926	5.6%	7,960	5.4%	34	-0.2%
4	18+ African-American	4,529	3.2%	4,300	2.9%	-229	-0.3%
4	18+ total minority	94,472	66.8%	98,330	66.5%	3,858	-0.3%
4	Hispanic CVAP	42,790	42.9%	44,082	43.0%	1,292	0.1%
4	Hispanic Registration	32,725	43.0%	34,087	42.5%	1,362	-0.5%
4	2004 Prop 200 Yes	18,654	53.0%	20,343	54.8%	1,689	1.8%
4	2004 President Dem	18,803	50.1%	19,113	48.3%	310	-1.9%
4	2006 Sec of St Dem	13,763	53.5%	14,205	51.6%	442	-1.9%
4	2008 President Dem	23,430	52.0%	23,623	50.1%	193	-1.9%
4	2010 Mine Dem	17,496	54.5%	17,741	52.7%	245	-1.8%

5	Deviation from Ideal Populatio	5,972	2.8%	-403	-0.2%	-6,375	-3.0%
5	NH White	172,081	78.6%	165,048	77.6%	-7,033	-1.0%
5	Hispanic	34,316	15.7%	33,848	15.9%	-468	0.2%
5	NH Native-American	4,609	2.1%	5,771	2.7%	1,162	0.6%
5	NH African-American	1,822	0.8%	1,826	0.9%	4	0.0%
5	Total minority	46,959	21.4%	47,616	22.4%	657	1.0%
5	18+ NH White	143,620	82.2%	140,552	81.6%	-3,068	-0.6%
5	18+ Hispanic	22,009	12.6%	21,827	12.7%	-182	0.1%
5	18+ NH Native American	3,291	1.9%	4,020	2.3%	729	0.5%
5	18+ African-American	1,424	0.8%	1,430	0.8%	6	0.0%

5	18+ total minority	31,081	17.8%	31,617	18.4%	536	0.6%
5	Hispanic CVAP	14,425	9.1%	14,421	9.2%	-4	0.1%
5	Hispanic Registration	9,046	7.3%	9,018	7.4%	-28	0.1%
5	2004 Prop 200 Yes	36,694	64.5%	37,208	64.7%	514	0.3%
5	2004 President Dem	22,170	35.7%	22,642	36.1%	472	0.4%
5	2006 Sec of St Dem	15,374	33.8%	15,643	33.9%	269	0.1%
5	2008 President Dem	23,887	33.3%	24,006	33.6%	119	0.3%
5	2010 Mine Dem	14,623	27.2%	14,741	27.7%	118	0.5%

6	Deviation from ideal Populatio	1,176	0.6%	304	0.1%	-872	-0.4%
6	NH White	159,161	74.3%	158,582	74.3%	-579	0.0%
6	Hispanic	33,176	15.5%	33,059	15.5%	-117	0.0%
6	NH Native American	13,062	6.1%	12,925	6.1%	-137	0.0%
6	NH African-American	2,004	0.9%	1,992	0.9%	-12	0.0%
6	Total minority	55,083	25.7%	54,790	25.7%	-293	0.0%
6	18+ NH White	132,925	78.2%	132,487	78.2%	-438	0.0%
6	18+ Hispanic	21,327	12.5%	21,252	12.6%	-75	0.0%
6	18+ NH Native American	9,210	5.4%	9,100	5.4%	-110	0.0%
6	18+ African-American	1,639	1.0%	1,631	1.0%	-8	0.0%
6	18+ total minority	37,040	21.8%	36,831	21.8%	-209	0.0%
6	Hispanic CVAP	11,868	8.0%	11,826	8.0%	-42	0.0%
6	Hispanic Registration	7,641	6.6%	7,602	6.6%	-39	0.0%
6	2004 Prop 200 Yes	45,264	52.4%	45,034	52.4%	-230	0.0%
6	2004 President Dem	42,883	46.8%	42,686	46.8%	-197	0.0%
6	2006 Sec of St Dem	28,255	42.2%	28,068	42.2%	-187	0.0%
6	2008 President Dem	42,101	45.5%	41,874	45.5%	-227	0.0%
6	2010 Mine Dem	27,548	41.1%	27,371	41.1%	-177	0.0%

7	Deviation from ideal Populatio	-10,041	-4.7%	46	0.0%	10,087	4.7%
7	NH White	50,373	24.8%	59,843	28.1%	9,470	3.3%
7	Hispanic	13,878	6.8%	15,380	7.2%	1,502	0.4%
7	NH Native American	133,830	65.9%	132,826	62.3%	-1,004	-3.6%
7	NH African-American	914	0.5%	934	0.4%	20	0.0%
7	Total minority	152,653	75.2%	153,271	71.9%	618	-3.3%
7	18+ NH White	40,013	28.7%	45,189	31.2%	5,176	2.5%
7	18+ Hispanic	8,545	6.1%	9,415	6.5%	870	0.4%
7	18+ NH Native American	87,851	63.1%	87,245	60.3%	-606	-2.8%
7	18+ African-American	778	0.6%	791	0.5%	13	0.0%
7	18+ total minority	99,246	71.3%	93,577	68.8%	331	-2.5%
7	Hispanic CVAP	6,450	4.7%	6,617	4.7%	167	0.0%
7	Hispanic Registration	4,745	4.1%	4,924	4.1%	179	0.0%
7	2004 Prop 200 Yes	27,266	53.6%	27,593	53.3%	327	-0.2%
7	2004 President Dem	35,347	60.2%	35,388	59.4%	41	-0.8%
7	2006 Sec of St Dem	25,582	61.4%	25,729	61.0%	147	-0.5%
7	2008 President Dem	39,172	60.5%	39,584	59.6%	412	-0.9%
7	2010 Mine Dem	32,166	63.0%	32,460	61.4%	294	-1.6%

8	Deviation from Ideal Populatio	-4,645	-2.2%	330	0.2%	4,975	2.3%
8	NH White	104,152	50.0%	117,764	55.2%	13,612	5.2%
8	Hispanic	72,456	34.8%	62,003	29.1%	-10,453	-5.7%
8	NH Native-American	14,534	7.0%	14,391	6.7%	-143	-0.2%
8	NH African-American	9,211	4.4%	10,609	5.0%	1,398	0.6%
8	Total minority	104,270	50.0%	95,634	44.8%	-8,636	-5.2%
8	18+ NH White	81,918	53.4%	88,184	58.3%	6,266	4.9%
8	18+ Hispanic	48,030	31.3%	39,762	26.3%	-8,268	-5.0%
8	18+ NH Native American	10,829	7.1%	10,671	7.1%	-158	0.0%
8	18+ African-American	7,014	4.6%	7,437	4.9%	423	0.3%
8	18+ total minority	71,487	46.6%	63,005	41.7%	-8,482	-4.9%
8	Hispanic CVAP	32,245	30.5%	26,897	24.6%	-5,348	-5.8%
8	Hispanic Registration	19,113	23.0%	16,008	18.3%	-3,105	-4.7%
8	2004 Prop 200 Yes	18,330	53.9%	14,202	54.9%	-4,128	1.0%
8	2004 President Dem	16,331	45.3%	12,312	44.9%	-4,019	-0.4%
8	2006 Sec of St Dem	14,263	46.8%	11,457	44.5%	-2,806	-2.2%
8	2008 President Dem	23,068	44.3%	23,480	43.6%	412	-0.8%
8	2010 Mine Dem	17,428	46.3%	15,442	42.3%	-1,986	-4.0%

9	Deviation from Ideal Populatio	156	0.1%	153	0.1%	-3	0.0%
9	NH White	146,025	68.5%	148,384	69.6%	2,359	1.1%
9	Hispanic	46,661	21.9%	45,021	21.1%	-1,640	-0.8%
9	NH Native-American	2,065	1.0%	1,959	0.9%	-106	0.0%
9	NH African-American	5,917	2.8%	5,546	2.6%	-371	-0.2%
9	Total minority	67,199	31.5%	64,837	30.4%	-2,362	-1.1%
9	18+ NH White	125,635	73.0%	126,968	73.9%	1,333	0.9%
9	18+ Hispanic	31,504	18.3%	30,395	17.7%	-1,109	-0.6%
9	18+ NH Native American	1,550	0.9%	1,473	0.9%	-77	0.0%
9	18+ African-American	4,346	2.5%	4,057	2.4%	-289	-0.2%
9	18+ total minority	46,485	27.0%	44,804	26.1%	-1,681	-0.9%
9	Hispanic CVAP	23,354	14.1%	22,935	13.8%	-419	-0.3%
9	Hispanic Registration	10,801	9.5%	10,895	9.4%	94	-0.1%
9	2004 Prop 200 Yes	44,058	46.5%	44,873	47.0%	815	0.5%
9	2004 President Dem	53,137	53.5%	52,734	52.6%	-403	-0.8%
9	2006 Sec of St Dem	36,089	50.0%	36,175	49.3%	86	-0.7%
9	2008 President Dem	54,115	54.5%	54,061	53.6%	-54	-0.9%
9	2010 Mine Dem	37,977	51.4%	38,065	50.5%	88	-0.8%

10	Deviation from Ideal Populatio	-1,994	-0.9%	-125	-0.1%	1,869	0.9%
10	NH White	138,868	65.8%	145,094	68.1%	6,226	2.3%
10	Hispanic	49,128	23.3%	44,662	21.0%	-4,466	-2.3%
10	NH Native-American	1,807	0.9%	1,655	0.8%	-152	-0.1%
10	NH African-American	9,556	4.5%	9,497	4.5%	-59	-0.1%
10	Total minority	72,205	34.2%	67,848	31.9%	-4,357	-2.3%
10	18+ NH White	117,413	70.5%	121,722	72.4%	4,309	1.9%
10	18+ Hispanic	32,487	19.5%	29,535	17.6%	-2,952	-1.9%
10	18+ NH Native American	1,339	0.8%	1,258	0.7%	-81	-0.1%

10	18+ African-American	7,195	4.3%	7,222	4.3%	27	0.0%
10	18+ total minority	49,226	29.5%	46,395	27.6%	-2,831	-1.9%
10	Hispanic CVAP	26,172	15.9%	23,742	14.5%	-2,430	-1.4%
10	Hispanic Registration	12,948	11.5%	12,136	10.6%	-812	-0.9%
10	2004 Prop 200 Yes	44,175	48.7%	46,070	49.4%	1,895	0.7%
10	2004 President Dem	48,763	51.2%	49,164	50.2%	401	-1.0%
10	2006 Sec of St Dem	33,934	48.8%	33,884	47.7%	-50	-1.1%
10	2008 President Dem	50,663	51.9%	51,061	51.0%	398	-0.9%
10	2010 Mine Dem	36,103	49.5%	36,193	48.4%	90	-1.1%

11	Deviation from Ideal Populatio	309	0.1%	218	0.1%	-91	0.0%
11	NH White	145,091	68.0%	134,153	62.9%	-10,938	-5.1%
11	Hispanic	48,249	22.6%	60,401	28.3%	12,152	5.7%
11	NH Native American	3,108	1.5%	3,309	1.6%	201	0.1%
11	NH African-American	7,160	3.4%	6,007	2.8%	-1,153	-0.5%
11	Total minority	68,286	32.0%	79,133	37.1%	10,847	5.1%
11	18+ NH White	117,449	73.3%	111,790	68.1%	-5,659	-5.2%
11	18+ Hispanic	29,474	18.4%	38,561	23.5%	9,087	5.1%
11	18+ NH Native American	2,131	1.3%	2,304	1.4%	173	0.1%
11	18+ African-American	4,935	3.1%	4,683	2.9%	-252	-0.2%
11	18+ total minority	42,808	26.7%	52,381	31.9%	9,573	5.2%
11	Hispanic CVAP	19,747	14.7%	25,448	19.2%	5,701	4.4%
11	Hispanic Registration	12,890	11.2%	16,092	14.6%	3,202	3.4%
11	2004 Prop 200 Yes	33,514	57.3%	35,675	56.6%	2,161	-0.7%
11	2004 President Dem	25,310	41.2%	27,711	41.9%	2,401	0.6%
11	2006 Sec of St Dem	19,912	39.6%	21,363	41.1%	1,451	1.5%
11	2008 President Dem	36,784	41.9%	35,401	42.0%	-1,383	0.1%
11	2010 Mine Dem	26,250	38.4%	27,221	40.3%	971	1.9%

12	Deviation from Ideal Populatio	8,667	4.1%	384	0.2%	-8,283	-3.9%
12	NH White	162,476	73.3%	155,751	73.0%	-6[illegible]5	-0.3%
12	Hispanic	34,578	15.6%	31,978	15.0%	-2,600	-0.6%
12	NH Native American	1,385	0.6%	1,430	0.7%	45	0.0%
12	NH African-American	6,797	3.1%	6,665	3.1%	-132	0.1%
12	Total minority	59,259	26.7%	57,701	27.0%	-1,558	0.3%
12	18+ NH White	111,743	75.6%	109,256	75.4%	-2,487	-0.3%
12	18+ Hispanic	20,504	13.9%	19,241	13.3%	-1,263	-0.6%
12	18+ NH Native American	930	0.6%	965	0.7%	35	0.0%
12	18+ African-American	4,497	3.0%	4,486	3.1%	-11	0.1%
12	18+ total minority	36,011	24.4%	35,692	24.6%	-319	0.3%
12	Hispanic CVAP	15,949	12.4%	15,268	11.9%	-681	-0.5%
12	Hispanic Registration	11,151	9.2%	10,790	8.9%	-361	-0.3%
12	2004 Prop 200 Yes	34,677	61.4%	32,568	61.2%	-2,109	-0.3%
12	2004 President Dem	19,334	31.9%	18,563	32.4%	-771	0.5%
12	2006 Sec of St Dem	12,598	28.3%	12,241	28.8%	-357	0.5%
12	2008 President Dem	28,826	34.7%	30,326	36.2%	1,500	1.6%
12	2010 Mine Dem	15,842	30.1%	16,449	31.4%	607	1.3%

13	Deviation from Ideal Populatio	-1,366	-0.6%	-171	-0.1%	1,195	0.6%
13	NH White	126,954	60.0%	131,333	61.7%	4,379	1.7%
13	Hispanic	66,106	31.2%	60,939	28.6%	-5,167	-2.6%
13	NH Native-American	1,757	0.8%	1,721	0.8%	-36	0.0%
13	NH African-American	7,530	3.6%	8,911	4.2%	1,381	0.6%
13	Total minority	84,747	40.0%	81,563	38.3%	-3,184	-1.7%
13	18+ NH White	103,306	65.9%	105,708	67.6%	2,402	1.6%
13	18+ Hispanic	40,759	26.0%	36,940	23.6%	-3,819	-2.4%
13	18+ NH Native American	1,363	0.9%	1,332	0.9%	-31	0.0%
13	18+ African-American	5,333	3.4%	6,213	4.0%	880	0.6%
13	18+ total minority	53,344	34.1%	50,697	32.4%	-2,647	-1.6%
13	Hispanic CVAP	23,429	19.6%	21,898	18.4%	-1,531	-1.1%
13	Hispanic Registration	16,111	17.0%	14,908	15.5%	-1,203	-1.4%
13	2004 Prop 200 Yes	28,718	67.2%	27,189	66.9%	-1,529	-0.3%
13	2004 President Dem	15,370	33.9%	14,722	34.1%	-648	0.2%
13	2006 Sec of St Dem	10,944	32.4%	10,238	32.1%	-706	-0.3%
13	2008 President Dem	22,039	35.0%	22,968	35.8%	929	0.9%
13	2010 Mine Dem	14,635	31.4%	14,862	31.7%	227	0.3%

14	Deviation from Ideal Populatio	4,625	2.2%	-7	0.0%	-4,632	-2.2%
14	NH White	132,552	60.9%	129,628	60.8%	-2,924	0.0%
14	Hispanic	67,082	30.8%	65,875	30.9%	-1,207	0.1%
14	NH Native-American	1,851	0.9%	1,861	0.9%	10	0.0%
14	NH African-American	7,070	3.2%	6,875	3.2%	-195	0.0%
14	Total minority	85,141	39.1%	83,432	39.2%	-1,709	0.0%
14	18+ NH White	105,951	65.0%	104,327	65.0%	-1,624	0.0%
14	18+ Hispanic	43,999	27.0%	43,467	27.1%	-532	0.1%
14	18+ NH Native American	1,479	0.9%	1,489	0.9%	10	0.0%
14	18+ African-American	5,448	3.3%	5,309	3.3%	-139	0.0%
14	18+ total minority	57,061	35.0%	56,253	35.0%	-808	0.0%
14	Hispanic CVAP	32,188	22.7%	31,470	22.8%	-718	0.2%
14	Hispanic Registration	21,231	17.4%	20,813	17.5%	-418	0.0%
14	2004 Prop 200 Yes	39,005	57.5%	36,874	57.4%	-2,131	-0.1%
14	2004 President Dem	26,288	37.0%	25,031	37.2%	-1,257	0.2%
14	2006 Sec of St Dem	20,625	38.7%	19,710	39.0%	-915	0.3%
14	2008 President Dem	30,123	36.9%	29,317	37.0%	-806	0.1%
14	2010 Mine Dem	23,784	37.2%	23,258	37.3%	-526	0.1%

15	Deviation from Ideal Populatio	1,873	0.9%	-316	-0.1%	-2,189	-1.0%
15	NH White	172,110	80.1%	162,784	76.5%	-9,326	-3.6%
15	Hispanic	22,035	10.3%	28,828	13.6%	6,793	3.3%
15	NH Native-American	1,359	0.6%	1,793	0.8%	434	0.2%
15	NH African-American	4,086	1.9%	5,035	2.4%	949	0.5%
15	Total minority	42,831	19.9%	49,967	23.5%	7,136	3.6%
15	18+ NH White	133,974	82.4%	129,531	79.6%	-4,443	-2.8%
15	18+ Hispanic	13,970	8.6%	18,101	11.1%	4,131	2.5%

15	18+ NH Native American	973	0.6%	1,270	0.8%	297	0.2%
15	18+ African-American	3,037	1.9%	3,706	2.3%	669	0.4%
15	18+ total minority	28,606	17.6%	33,166	20.4%	4,561	2.8%
15	Hispanic CVAP	10,166	6.9%	11,833	8.0%	1,667	1.1%
15	Hispanic Registration	6,931	5.4%	7,220	5.9%	289	0.5%
15	2004 Prop 200 Yes	45,281	60.5%	47,74[illegible]	60.3%	2,464	-0.1%
15	2004 President Dem	29,938	37.3%	32,887	38.7%	2,949	1.5%
15	2006 Sec of St Dem	17,753	31.0%	18,164	32.3%	411	1.3%
15	2008 President Dem	36,837	39.3%	36,379	41.7%	-458	2.4%
15	2010 Mine Dem	21,510	34.2%	21,028	36.2%	-482	2.0%

16	Deviation from Ideal Populatio	7,089	3.3%	-325	-0.2%	-7,414	-3.5%
16	NH White	169,113	76.8%	163,045	76.6%	-6,068	-0.2%
16	Hispanic	36,222	16.5%	34,668	16.3%	-1,554	-0.2%
16	NH Native-American	1,776	0.8%	1,669	0.8%	-107	0.0%
16	NH African-American	4,816	2.2%	5,004	2.4%	188	0.2%
16	Total minority	51,044	23.2%	49,697	23.4%	-1,347	0.2%
16	18+ NH White	133,781	81.2%	127,629	80.9%	-6,152	-0.3%
16	18+ Hispanic	21,337	13.0%	20,447	13.0%	-890	0.0%
16	18+ NH Native American	1,260	0.8%	1,183	0.8%	-77	0.0%
16	18+ African-American	3,353	2.0%	3,425	2.2%	72	0.1%
16	18+ total minority	30,938	18.8%	30,041	19.1%	-897	0.3%
16	Hispanic CVAP	13,387	9.2%	13,022	9.5%	-365	0.3%
16	Hispanic Registration	9,765	8.6%	9,507	8.7%	-258	0.1%
16	2004 Prop 200 Yes	41,566	63.9%	38,924	63.9%	-2,642	0.0%
16	2004 President Dem	25,426	36.5%	23,680	36.3%	-1,746	-0.2%
16	2006 Sec of St Dem	15,659	34.6%	14,527	34.4%	-1,132	-0.2%
16	2008 President Dem	28,930	38.1%	27,786	37.7%	-1,144	-0.3%
16	2010 Mine Dem	17,780	33.8%	17,042	33.5%	-738	-0.3%

17	Deviation from Ideal Populatio	8,106	3.8%	-86	0.0%	-8,192	-3.8%
17	NH White	140,660	63.6%	134,167	63.0%	-6,493	-0.6%
17	Hispanic	47,472	21.5%	46,681	21.9%	-791	0.5%
17	NH Native-American	2,221	1.0%	2,210	1.0%	-11	0.0%
17	NH African-American	9,238	4.2%	9,164	4.3%	-74	0.1%
17	Total minority	80,514	36.4%	78,814	37.0%	1,700	0.6%
17	18+ NH White	110,213	68.1%	105,976	67.6%	-4,237	-0.5%
17	18+ Hispanic	29,525	18.2%	29,169	18.6%	-356	0.4%
17	18+ NH Native American	1,515	0.9%	1,531	1.0%	16	0.0%
17	18+ African-American	6,526	4.0%	6,479	4.1%	-47	0.1%
17	18+ total minority	51,722	31.9%	50,832	32.4%	-890	0.5%
17	Hispanic CVAP	20,229	14.1%	20,113	14.5%	-116	0.4%
17	Hispanic Registration	12,770	10.5%	12,432	10.8%	-338	0.2%
17	2004 Prop 200 Yes	38,712	59.5%	41,127	58.9%	2,415	-0.5%
17	2004 President Dem	27,851	39.7%	30,398	40.5%	2,547	0.8%
17	2006 Sec of St Dem	17,448	35.1%	18,948	35.6%	1,500	0.4%
17	2008 President Dem	39,162	43.3%	38,029	44.0%	-1,133	0.6%

17	2010 Mine Dem	22,098	38.1%	21,665	38.8%	-433	0.7%

18	Deviation from Ideal Populatio	5,609	2.6%	222	0.1%	-5,387	-2.5%
18	NH White	153,658	70.3%	145,201	68.1%	-8,457	-2.2%
18	Hispanic	31,641	14.5%	33,743	15.8%	2,102	1.4%
18	NH Native-American	3,190	1.5%	3,732	1.7%	542	0.3%
18	NH African-American	10,190	4.7%	11,230	5.3%	1,040	0.6%
18	Total minority	65,019	29.7%	68,089	31.9%	3,070	2.2%
18	18+ NH White	124,070	73.4%	118,600	71.6%	-5,470	-1.8%
18	18+ Hispanic	21,459	12.7%	22,873	13.8%	1,414	1.1%
18	18+ NH Native American	2,280	1.3%	2,699	1.6%	419	0.3%
18	18+ African-American	7,413	4.4%	8,091	4.9%	678	0.5%
18	18+ total minority	44,896	26.6%	47,066	28.4%	2,170	1.8%
18	Hispanic CVAP	18,319	11.1%	18,614	11.5%	295	0.4%
18	Hispanic Registration	11,703	8.5%	11,406	8.7%	-297	0.2%
18	2004 Prop 200 Yes	49,175	52.7%	45,551	51.5%	-3,624	-1.2%
18	2004 President Dem	46,464	46.5%	45,654	48.1%	-810	1.6%
18	2006 Sec of St Dem	27,032	40.2%	26,132	41.3%	-900	1.1%
18	2008 President Dem	53,041	49.4%	51,517	51.0%	-1,524	1.6%
18	2010 Mine Dem	31,664	45.4%	30,789	46.8%	-875	1.4%

19	Deviation from Ideal Populatio	-5,979	-2.8%	268	0.1%	6,247	2.9%
19	NH White	45,004	21.7%	46,284	21.7%	1,280	0.0%
19	Hispanic	134,862	65.1%	139,454	65.4%	4,592	0.2%
19	NH Native-American	2,350	1.1%	2,339	1.1%	-11	0.0%
19	NH African-American	16,061	7.8%	16,296	7.6%	235	-0.1%
19	Total minority	162,084	78.3%	167,052	78.3%	4,968	0.0%
19	18+ NH White	35,275	26.4%	36,290	26.4%	1,015	0.0%
19	18+ Hispanic	80,622	60.4%	83,145	60.6%	2,523	0.2%
19	18+ NH Native American	1,639	1.2%	1,590	1.2%	-49	-0.1%
19	18+ African-American	10,325	7.7%	10,453	7.6%	128	-0.1%
19	18+ total minority	98,274	73.6%	100,973	73.6%	2,699	0.0%
19	Hispanic CVAP	47,169	47.5%	47,549	47.8%	380	0.3%
19	Hispanic Registration	28,730	41.3%	29,566	41.2%	836	0.0%
19	2004 Prop 200 Yes	15,868	54.3%	16,672	54.6%	804	0.3%
19	2004 President Dem	16,322	52.8%	16,980	52.6%	658	-0.2%
19	2006 Sec of St Dem	9,946	51.8%	10,466	51.9%	520	0.2%
19	2008 President Dem	23,710	60.8%	24,447	60.7%	737	-0.1%
19	2010 Mine Dem	15,964	62.8%	16,500	62.7%	536	-0.1%

20	Deviation from Ideal Populatio	5,099	2.4%	-387	-0.2%	-5,486	-2.6%
20	NH White	148,114	67.9%	143,598	67.5%	-4,516	-0.4%
20	Hispanic	46,856	21.5%	44,632	21.0%	-2,224	-0.5%
20	NH Native-American	2,947	1.4%	2,743	1.3%	-204	-0.1%
20	NH African-American	8,325	3.8%	8,837	4.2%	512	0.3%
20	Total minority	70,053	32.1%	69,082	32.5%	-971	0.4%
20	18+ NH White	120,748	72.5%	115,928	71.8%	-4,820	-0.7%

20	18+ Hispanic	29,476	17.7%	28,189	17.5%	-1,287	-0.2%
20	18+ NH Native American	2,102	1.3%	1,975	1.2%	-127	0.0%
20	18+ African-American	6,029	3.6%	6,423	4.0%	394	0.4%
20	18+ total minority	45,822	27.5%	45,530	28.2%	-292	0.7%
20	Hispanic CVAP	21,418	13.0%	22,271	13.6%	853	0.6%
20	Hispanic Registration	12,284	10.3%	12,981	11.1%	697	0.8%
20	2004 Prop 200 Yes	49,320	60.3%	42,962	60.4%	-6,358	0.1%
20	2004 President Dem	35,708	41.0%	30,789	40.5%	-4,919	-0.4%
20	2006 Sec of St Dem	19,386	34.6%	17,639	34.2%	-1,747	-0.4%
20	2008 President Dem	34,834	42.7%	32,964	41.1%	-1,870	-1.6%
20	2010 Mine Dem	21,409	39.7%	20,187	38.7%	-1,222	-1.0%

21	Deviation from Ideal Populatio	3,174	1.5%	404	0.2%	-2,770	-1.3%
21	NH White	143,644	66.4%	141,249	66.2%	-2,395	-0.3%
21	Hispanic	53,053	24.5%	52,806	24.7%	-247	0.2%
21	NH Native American	1,562	0.7%	1,555	0.7%	-7	0.0%
21	NH African American	8,819	4.1%	8,792	4.1%	-27	0.0%
21	Total minority	72,598	33.6%	72,223	33.8%	-375	0.3%
21	18+ NH White	119,158	72.4%	117,007	72.1%	-2,151	-0.3%
21	18+ Hispanic	32,423	19.7%	32,275	19.9%	-148	0.2%
21	18+ NH Native American	1,098	0.7%	1,091	0.7%	-7	0.0%
21	18+ African-American	6,140	3.7%	6,120	3.8%	-20	0.0%
21	18+ total minority	45,530	27.6%	45,299	27.9%	-231	0.3%
21	Hispanic CVAP	20,698	15.3%	20,677	15.5%	-21	0.2%
21	Hispanic Registration	15,959	13.7%	15,868	13.8%	-91	0.1%
21	2004 Prop 200 Yes	40,541	60.7%	39,749	60.7%	-792	-0.1%
21	2004 President Dem	28,666	40.0%	28,156	40.0%	-510	0.0%
21	2006 Sec of St Dem	18,274	34.8%	18,209	34.8%	-65	0.0%
21	2008 President Dem	33,902	41.6%	33,443	41.6%	-459	0.1%
21	2010 Mine Dem	21,672	38.1%	21,382	38.2%	-290	0.1%

22	Deviation from Ideal Populatio	2,844	1.3%	44	0.0%	-2,800	-1.3%
22	NH White	175,513	81.3%	175,136	82.2%	-377	0.9%
22	Hispanic	22,375	10.4%	20,426	9.6%	-1,949	-0.8%
22	NH Native American	839	0.4%	796	0.4%	-43	0.0%
22	NH African-American	5,822	2.7%	5,426	2.5%	-396	0.2%
22	Total minority	40,399	18.7%	37,976	17.8%	-2,423	-0.9%
22	18+ NH White	141,890	84.6%	140,567	85.4%	-1,323	0.8%
22	18+ Hispanic	13,708	8.2%	12,425	7.6%	-1,283	-0.6%
22	18+ NH Native American	586	0.3%	559	0.3%	-27	0.0%
22	18+ African-American	4,149	2.5%	3,849	2.3%	-300	-0.1%
22	18+ total minority	25,798	15.4%	23,943	14.6%	-1,855	-0.8%
22	Hispanic CVAP	9,911	7.1%	8,993	6.6%	-918	-0.5%
22	Hispanic Registration	7,804	6.0%	7,289	5.6%	-515	-0.3%
22	2004 Prop 200 Yes	46,238	62.9%	45,060	63.1%	-1,178	0.2%
22	2004 President Dem	29,142	37.0%	28,039	36.7%	-1,103	-0.3%
22	2006 Sec of St Dem	20,500	30.7%	19,713	30.4%	-787	-0.2%

22	2008 President Dem	36,693	36.7%	36,213	36.5%	-480	-0.3%
22	2010 Mine Dem	22,817	31.7%	22,657	31.5%	-160	-0.2%

23	Deviation from Ideal Populatio	383	0.2%	-36	0.0%	-419	-0.2%
23	NH White	186,190	87.2%	186,991	87.8%	801	0.5%
23	Hispanic	12,212	5.7%	11,497	5.4%	-715	-0.3%
23	NH Native American	1,616	0.8%	1,508	0.7%	-108	0.0%
23	NH African-American	2,833	1.3%	2,679	1.3%	-154	-0.1%
23	Total minority	27,261	12.8%	26,040	12.2%	-1,221	-0.5%
23	18+ NH White	156,821	89.0%	157,273	89.5%	452	0.5%
23	18+ Hispanic	8,631	4.9%	8,095	4.6%	-536	-0.3%
23	18+ NH Native American	1,189	0.7%	1,103	0.6%	-86	0.0%
23	18+ African-American	2,284	1.3%	2,169	1.2%	-115	-0.1%
23	18+ total minority	19,450	11.0%	18,527	10.5%	-923	-0.5%
23	Hispanic CVAP	6,694	3.9%	6,314	3.7%	-380	-0.2%
23	Hispanic Registration	4,606	3.1%	4,339	2.9%	-267	-0.2%
23	2004 Prop 200 Yes	56,934	57.4%	54,989	57.7%	-1,945	0.3%
23	2004 President Dem	42,527	39.3%	40,224	38.7%	-2,303	-0.6%
23	2006 Sec of St Dem	24,824	31.6%	23,972	31.3%	-852	-0.3%
23	2008 President Dem	47,278	40.4%	46,619	39.6%	-659	-0.8%
23	2010 Mine Dem	27,588	33.6%	27,285	32.8%	-303	-0.9%

24	Deviation from Ideal Populatio	-6,408	-3.0%	126	0.1%	6,534	3.1%
24	NH White	92,695	44.9%	121,536	57.0%	28,841	12.2%
24	Hispanic	85,381	41.3%	59,271	27.8%	-26,110	-13.5%
24	NH Native American	6,716	3.2%	6,506	3.1%	-210	-0.2%
24	NH African-American	13,046	6.3%	12,427	5.8%	-619	-0.5%
24	Total minority	113,964	55.1%	91,658	43.0%	-22,306	-12.2%
24	18+ NH White	82,855	52.4%	107,774	62.3%	24,919	9.9%
24	18+ Hispanic	53,875	34.1%	39,719	23.0%	-14,156	-11.1%
24	18+ NH Native American	4,861	3.1%	4,809	2.8%	-52	-0.3%
24	18+ African-American	9,883	6.3%	9,699	5.6%	-184	-0.6%
24	18+ total minority	75,129	47.6%	65,106	37.7%	-10,023	-9.9%
24	Hispanic CVAP	30,860	22.8%	23,517	15.5%	-7,343	-7.3%
24	Hispanic Registration	15,329	16.6%	12,364	11.9%	2,965	-4.8%
24	2004 Prop 200 Yes	29,970	50.8%	33,811	49.0%	3,841	-1.8%
24	2004 President Dem	36,734	58.5%	41,403	56.0%	4,669	-2.5%
24	2006 Sec of St Dem	21,582	52.2%	23,489	48.9%	1,907	-3.3%
24	2008 President Dem	38,568	61.6%	43,213	59.0%	4,645	-2.6%
24	2010 Mine Dem	24,987	59.7%	26,476	55.1%	1,489	-4.6%

25	Deviation from Ideal Populatio	7,727	3.6%	-342	-0.2%	-8,069	-3.8%
25	NH White	160,255	72.6%	163,001	76.6%	2,746	4.0%
25	Hispanic	43,023	19.5%	34,976	16.4%	-8,047	-3.0%
25	NH Native American	3,655	1.7%	2,331	1.1%	-1,324	-0.6%
25	NH African-American	5,837	2.6%	4,701	2.2%	-1,136	-0.4%
25	Total minority	60,540	27.4%	49,724	23.4%	-10,816	-4.0%

25	18+ NH White	129,933	77.4%	131,404	80.6%	1,471	3.3%
25	18+ Hispanic	26,254	15.6%	21,553	13.2%	-4,701	-2.4%
25	18+ NH Native American	2,399	1.4%	1,596	1.0%	-803	-0.4%
25	18+ African-American	4,217	2.5%	3,450	2.1%	-767	-0.4%
25	18+ total minority	38,011	22.6%	31,591	19.4%	-6,420	-3.3%
25	Hispanic CVAP	15,544	9.8%	14,574	9.4%	-970	-0.4%
25	Hispanic Registration	10,418	8.3%	9,505	7.6%	-913	-0.7%
25	2004 Prop 200 Yes	48,867	60.8%	48,667	61.4%	-200	0.6%
25	2004 President Dem	28,637	33.4%	27,828	32.9%	-809	-0.5%
25	2006 Sec of St Dem	18,128	29.4%	17,593	29.1%	-535	-0.3%
25	2008 President Dem	31,583	34.9%	30,777	34.1%	-806	-0.8%
25	2010 Mine Dem	20,012	32.1%	19,522	31.3%	-490	-0.9%

26	Deviation from Ideal Populatio	591	0.3%	-183	-0.1%	-774	-0.4%
26	NH White	96,917	45.4%	105,597	49.6%	8,680	4.2%
26	Hispanic	82,251	38.5%	79,911	37.5%	-2,340	-1.0%
26	NH Native American	10,155	4.8%	10,210	4.8%	55	0.0%
26	NH African American	11,034	5.2%	8,202	3.9%	-2,832	-1.3%
26	Total minority	116,742	54.6%	107,287	50.4%	-9,455	-4.2%
26	18+ NH White	85,964	52.3%	89,378	56.7%	3,414	4.4%
26	18+ Hispanic	52,537	32.0%	49,167	31.2%	-3,370	-0.8%
26	18+ NH Native American	6,994	4.3%	6,781	4.3%	-213	0.0%
26	18+ African-American	8,347	5.1%	6,069	3.8%	-2,278	-1.2%
26	18+ total minority	78,459	47.7%	68,262	43.3%	-10,197	-4.4%
26	Hispanic CVAP	24,140	18.7%	20,845	16.0%	-3,295	-2.8%
26	Hispanic Registration	14,998	17.2%	14,406	14.6%	-592	-2.6%
26	2004 Prop 200 Yes	25,937	50.3%	34,554	56.2%	8,617	5.8%
26	2004 President Dem	29,553	53.2%	29,862	45.4%	309	-7.8%
26	2006 Sec of St Dem	16,225	47.7%	16,305	39.7%	80	-8.0%
26	2008 President Dem	31,363	58.2%	32,121	49.3%	758	-8.8%
26	2010 Mine Dem	18,403	55.9%	19,339	46.3%	936	-9.6%

27	Deviation from Ideal Populatio	8,872	4.2%	27	0.0%	8,899	4.2%
27	NH White	40,058	19.6%	38,653	18.1%	-1,405	-1.5%
27	Hispanic	116,568	57.1%	127,010	59.6%	10,442	2.5%
27	NH Native American	7,628	3.7%	7,548	3.5%	-80	-0.2%
27	NH African American	29,982	14.7%	30,236	14.2%	254	-0.5%
27	Total minority	164,137	80.4%	174,442	81.9%	10,305	1.5%
27	18+ NH White	34,090	24.3%	32,733	22.6%	-1,357	-1.7%
27	18+ Hispanic	73,051	52.1%	79,041	54.6%	5,990	2.5%
27	18+ NH Native American	5,177	3.7%	5,116	3.5%	-61	-0.2%
27	18+ African-American	21,210	15.1%	21,353	14.8%	143	-0.4%
27	18+ total minority	106,239	75.7%	112,023	77.4%	5,784	1.7%
27	Hispanic CVAP	42,910	43.3%	46,905	44.6%	3,995	1.3%
27	Hispanic Registration	28,591	37.7%	30,364	39.0%	1,773	1.3%
27	2004 Prop 200 Yes	13,873	47.9%	13,733	47.8%	-140	-0.1%
27	2004 President Dem	20,967	67.8%	20,936	68.4%	-31	0.6%

27	2006 Sec of St Dem	14,205	66.6%	14,269	67.0%	64	0.4%
27	2008 President Dem	30,380	71.1%	30,877	71.4%	497	0.2%
27	2010 Mine Dem	20,201	72.7%	20,681	73.4%	480	0.7%

28	Deviation from Ideal Populatio	5,645	2.6%	147	0.1%	-5,498	-2.6%
28	NH White	152,121	69.6%	142,502	66.8%	-9,619	-2.7%
28	Hispanic	48,111	22.0%	49,976	23.4%	1,865	1.4%
28	NH Native-American	2,958	1.4%	3,529	1.7%	571	0.3%
28	NH African-American	5,919	2.7%	7,179	3.4%	1,260	0.7%
28	Total minority	66,592	30.4%	70,713	33.2%	4,121	2.7%
28	18+ NH White	126,340	74.5%	118,857	72.2%	-7,483	-2.3%
28	18+ Hispanic	30,085	17.7%	31,120	18.9%	1,035	1.2%
28	18+ NH Native American	2,136	1.3%	2,483	1.5%	347	0.2%
28	18+ African-American	4,391	2.6%	5,276	3.2%	885	0.6%
28	18+ total minority	43,268	25.5%	45,863	27.8%	2,595	2.3%
28	Hispanic CVAP	14,373	8.9%	14,120	9.4%	-253	0.5%
28	Hispanic Registration	8,663	6.8%	8,683	7.3%	20	0.5%
28	2004 Prop 200 Yes	49,838	53.7%	48,962	55.1%	-876	1.4%
28	2004 President Dem	43,544	44.2%	40,937	43.4%	-2,607	-0.8%
28	2006 Sec of St Dem	25,948	37.1%	24,194	36.3%	-1,754	-0.9%
28	2008 President Dem	44,399	46.0%	40,302	45.4%	-4,097	-0.6%
28	2010 Mine Dem	28,730	42.0%	25,970	41.6%	-2,760	-0.4%

29	Deviation from Ideal Populatio	-2,000	-0.9%	128	0.1%	2,128	1.0%
29	NH White	45,815	21.7%	44,688	21.0%	-1,127	-0.7%
29	Hispanic	142,923	67.7%	145,527	68.3%	2,604	0.5%
29	NH Native-American	2,119	1.0%	2,415	1.1%	296	0.1%
29	NH African-American	12,402	5.9%	13,055	6.1%	653	0.2%
29	Total minority	165,252	78.3%	168,508	79.0%	3,256	0.7%
29	18+ NH White	36,737	27.1%	36,589	26.6%	-148	-0.6%
29	18+ Hispanic	83,827	61.9%	85,823	62.3%	1,996	0.4%
29	18+ NH Native American	1,459	1.1%	1,664	1.2%	205	0.1%
29	18+ African-American	8,345	6.2%	8,736	6.3%	391	0.2%
29	18+ total minority	98,689	72.9%	101,121	73.4%	2,432	0.6%
29	Hispanic CVAP	42,432	45.8%	44,892	45.8%	2,460	-0.1%
29	Hispanic Registration	25,590	39.3%	25,937	40.3%	347	1.0%
29	2004 Prop 200 Yes	17,311	55.8%	17,055	55.4%	-256	-0.4%
29	2004 President Dem	16,917	51.9%	17,014	52.6%	97	0.7%
29	2006 Sec of St Dem	10,116	49.4%	9,971	49.5%	-145	0.1%
29	2008 President Dem	20,828	57.4%	20,741	58.4%	-87	1.0%
29	2010 Mine Dem	14,820	60.9%	14,950	62.4%	130	1.5%

30	Deviation from Ideal Populatio	-5,304	-2.5%	71	0.0%	5,375	2.5%
30	NH White	59,550	28.7%	57,617	27.0%	-1,933	-1.6%
30	Hispanic	119,436	57.5%	129,134	60.6%	9,698	3.1%
30	NH Native-American	4,666	2.2%	4,622	2.2%	-44	-0.1%
30	NH African-American	12,944	6.2%	11,651	5.5%	-1,293	-0.8%

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30	Total minority	148,213	71.3%	155,522	73.0%	7,309	1.6%
30	18+ NH White	50,160	35.5%	49,373	34.0%	-787	-1.5%
30	18+ Hispanic	71,675	50.7%	77,797	53.5%	6,122	2.8%
30	18+ NH Native American	3,210	2.3%	3,266	2.2%	56	0.0%
30	18+ African-American	8,834	6.3%	8,160	5.6%	-674	-0.6%
30	18+ total minority	91,111	64.5%	95,975	66.0%	4,864	1.5%
30	Hispanic CVAP	35,571	32.9%	37,027	35.1%	1,456	2.2%
30	Hispanic Registration	20,331	30.0%	20,862	30.4%	531	0.4%
30	2004 Prop 200 Yes	20,080	54.8%	20,208	51.6%	128	-3.1%
30	2004 President Dem	20,223	52.1%	23,483	57.0%	3,260	4.9%
30	2006 Sec of St Dem	11,154	46.8%	14,218	53.1%	3,064	6.3%
30	2008 President Dem	21,713	54.8%	24,236	60.2%	2,523	5.4%
30	2010 Mine Dem	15,050	56.3%	17,615	62.3%	2,565	6.0%

SPLITS - Final_Leg_Districts compared to Plaintiffs_Plan_X

County	5	5	5	5	5	5	0	0	0
Census Place	439	24	15	453	13	12	14	-11	-3
Census Tract	1,281	230	15	1,219	284	23	-62	54	8
Census Blk Grp	3,899	269	10	3,795	366	17	-104	97	7
Reservation	15	3	4	15	3	4	0	0	0
Tribal Subdiv	138	4	4	138	4	4	0	0	0

COMPETITIVENESS - Final_Leg_Districts compared to Plaintiffs_Plan_X

1	Index2	66.4%	33.6%	32.8%	66.4%	33.6%	32.8%	0.0%	0.0%	0.0%
1	Index3	67.6%	32.4%	35.2%	67.5%	32.5%	35.0%	-0.1%	0.1%	-0.2%
1	Index4	67.2%	32.8%	34.4%	67.2%	32.8%	34.4%	0.0%	0.0%	0.0%
1	Index5	67.8%	32.2%	35.6%	67.7%	32.3%	35.4%	-0.1%	0.1%	-0.2%
1	Index6	65.9%	34.1%	31.8%	65.8%	34.2%	31.6%	-0.1%	0.1%	-0.2%
1	Index7	66.7%	33.3%	33.4%	66.6%	33.4%	33.2%	-0.1%	0.1%	-0.2%
1	Index8	65.8%	34.2%	31.6%	65.8%	34.2%	31.6%	0.0%	0.0%	0.0%
1	Index9	66.9%	33.1%	33.8%	66.8%	33.2%	33.6%	-0.1%	0.1%	-0.2%
								-0.1%	0.1%	0.1%
2	Index2	42.8%	57.2%	14.4%	41.4%	58.6%	17.2%	-1.4%	1.4%	2.8%
2	Index3	40.8%	59.2%	18.4%	39.4%	60.6%	21.2%	-1.4%	1.4%	2.8%
2	Index4	45.9%	54.1%	8.2%	44.8%	55.2%	10.4%	-1.1%	1.1%	2.2%
2	Index5	44.1%	55.9%	11.8%	43.0%	57.0%	14.0%	-1.1%	1.1%	2.2%
2	Index6	43.6%	56.4%	12.8%	42.3%	57.7%	15.4%	-1.3%	1.3%	2.6%
2	Index7	42.2%	57.8%	15.6%	41.0%	59.0%	18.0%	-1.2%	1.2%	2.4%
2	Index8	43.2%	56.8%	13.6%	41.8%	58.2%	16.4%	-1.4%	1.4%	2.8%
2	Index9	41.6%	58.4%	16.8%	40.3%	59.7%	19.4%	-1.3%	1.3%	2.6%
								-0.7%	0.8%	-0.1%

3	Index2	31.0%	69.0%	38.0%	31.3%	68.7%	37.4%	0.3%	-0.3%	-0.6%
3	Index3	29.4%	70.6%	41.2%	29.6%	70.4%	40.8%	0.2%	-0.2%	-0.4%
3	Index4	35.0%	65.0%	30.0%	35.2%	64.8%	29.6%	0.2%	-0.2%	-0.4%
3	Index5	33.2%	66.8%	33.6%	33.4%	66.6%	33.2%	0.2%	-0.2%	-0.4%
3	Index6	31.8%	68.2%	36.4%	32.0%	68.0%	36.0%	0.2%	-0.2%	-0.4%
3	Index7	30.6%	69.4%	38.8%	30.8%	69.2%	38.4%	0.2%	-0.2%	-0.4%
3	Index8	31.3%	68.7%	37.4%	31.6%	68.4%	36.8%	0.3%	-0.3%	-0.6%
3	Index9	30.0%	70.0%	40.0%	30.2%	69.8%	39.6%	0.2%	-0.2%	-0.4%
								0.0%	0.0%	-0.1%
4	Index2	45.5%	54.5%	9.0%	47.3%	52.7%	5.4%	1.8%	-1.8%	-3.6%
4	Index3	42.9%	57.1%	14.2%	44.6%	55.4%	10.8%	1.7%	-1.7%	-3.4%
4	Index4	48.6%	51.4%	2.8%	50.3%	49.7%	0.6%	1.7%	-1.7%	-2.2%
4	Index5	46.4%	53.6%	7.2%	48.1%	51.9%	3.8%	1.7%	-1.7%	-3.4%
4	Index6	46.3%	53.7%	7.4%	48.1%	51.9%	3.8%	1.8%	-1.8%	-3.6%
4	Index7	44.6%	55.4%	10.8%	46.3%	53.7%	7.4%	1.7%	-1.7%	-3.4%
4	Index8	45.8%	54.2%	8.4%	47.6%	52.4%	4.8%	1.8%	-1.8%	-3.6%
4	Index9	43.8%	56.2%	12.4%	45.5%	54.5%	9.0%	1.7%	-1.7%	-3.4%
								1.0%	-0.8%	-0.2%
5	Index2	65.6%	34.4%	31.2%	65.4%	34.6%	30.8%	-0.2%	0.2%	-0.4%
5	Index3	64.6%	35.4%	29.2%	64.2%	35.8%	28.4%	-0.4%	0.4%	-0.8%
5	Index4	65.4%	34.6%	30.8%	65.2%	34.8%	30.4%	-0.2%	0.2%	-0.4%
5	Index5	64.9%	35.1%	29.8%	64.6%	35.4%	29.2%	-0.3%	0.3%	-0.6%
5	Index6	64.2%	35.8%	28.4%	64.0%	36.0%	28.0%	-0.2%	0.2%	-0.4%
5	Index7	63.9%	36.1%	27.8%	63.6%	36.4%	27.2%	-0.3%	0.3%	-0.6%
5	Index8	64.5%	35.5%	29.0%	64.3%	35.7%	28.6%	-0.2%	0.2%	-0.4%
5	Index9	64.1%	35.9%	28.2%	63.7%	36.3%	27.4%	-0.4%	0.4%	-0.8%
								-0.2%	0.5%	-0.3%
6	Index2	54.7%	45.3%	9.4%	54.7%	45.3%	9.4%	0.0%	0.0%	0.0%
6	Index3	55.3%	44.7%	10.6%	55.3%	44.7%	10.6%	0.0%	0.0%	0.0%
6	Index4	55.9%	44.1%	11.8%	55.9%	44.1%	11.8%	0.0%	0.0%	0.0%
6	Index5	56.0%	44.0%	12.0%	56.0%	44.0%	12.0%	0.0%	0.0%	0.0%
6	Index6	53.7%	46.3%	7.4%	53.7%	46.3%	7.4%	0.0%	0.0%	0.0%
6	Index7	54.3%	45.7%	8.6%	54.3%	45.7%	8.6%	0.0%	0.0%	0.0%
6	Index8	53.8%	46.2%	7.6%	53.8%	46.2%	7.6%	0.0%	0.0%	0.0%
6	Index9	54.5%	45.5%	9.0%	54.5%	45.5%	9.0%	0.0%	0.0%	0.0%
								0.0%	0.0%	0.0%
7	Index2	36.3%	63.7%	27.4%	37.4%	62.6%	25.2%	1.1%	-1.1%	-2.2%
7	Index3	32.9%	67.1%	34.2%	34.2%	65.8%	31.6%	1.3%	-1.3%	-2.6%
7	Index4	39.6%	60.4%	20.8%	40.5%	59.5%	19.0%	0.9%	-0.9%	-1.8%
7	Index5	37.0%	63.0%	26.0%	38.0%	62.0%	24.0%	1.0%	-1.0%	-2.0%
7	Index6	37.1%	62.9%	25.8%	37.9%	62.1%	24.2%	0.8%	-0.8%	-1.6%
7	Index7	34.9%	65.1%	30.2%	35.9%	64.1%	28.2%	1.0%	-1.0%	-2.0%

7	Index8	36.5%	63.5%	27.0%	37.5%	62.5%	25.0%	1.0%	-1.0%	-2.0%
7	Index9	34.0%	66.0%	32.0%	35.1%	64.9%	29.8%	1.1%	-1.1%	-2.2%
								0.9%	-1.4%	0.5%
8	Index2	51.3%	48.7%	2.6%	54.1%	45.9%	8.2%	2.8%	-2.8%	5.6%
8	Index3	48.5%	51.5%	3.0%	52.1%	47.9%	4.2%	3.6%	-3.6%	1.2%
8	Index4	53.1%	46.9%	6.2%	55.2%	44.8%	10.4%	2.1%	-2.1%	4.2%
8	Index5	51.1%	48.9%	2.2%	53.8%	46.2%	7.6%	2.7%	-2.7%	5.4%
8	Index6	51.4%	48.6%	2.8%	53.4%	46.6%	6.8%	2.0%	-2.0%	4.0%
8	Index7	49.7%	50.3%	0.6%	52.3%	47.7%	4.6%	2.6%	-2.6%	4.0%
8	Index8	51.1%	48.9%	2.2%	53.4%	46.6%	6.8%	2.3%	-2.3%	4.6%
8	Index9	49.0%	51.0%	2.0%	52.0%	48.0%	4.0%	3.0%	-3.0%	2.0%
								2.3%	-4.8%	2.5%
9	Index2	46.7%	53.3%	6.6%	47.5%	52.5%	5.0%	0.8%	-0.8%	-1.6%
9	Index3	46.9%	53.1%	6.2%	47.7%	52.3%	4.6%	0.8%	-0.8%	-1.6%
9	Index4	49.5%	50.5%	1.0%	50.3%	49.7%	0.6%	0.8%	-0.8%	-0.4%
9	Index5	49.1%	50.9%	1.8%	49.9%	50.1%	0.2%	0.8%	-0.8%	-1.6%
9	Index6	46.7%	53.3%	6.6%	47.5%	52.5%	5.0%	0.8%	-0.8%	-1.6%
9	Index7	46.8%	53.2%	6.4%	47.6%	52.4%	4.8%	0.8%	-0.8%	-1.6%
9	Index8	46.4%	53.6%	7.2%	47.2%	52.8%	5.6%	0.8%	-0.8%	-1.6%
9	Index9	46.6%	53.4%	6.8%	47.5%	52.5%	5.0%	0.9%	-0.9%	-1.8%
								0.7%	-0.6%	-0.1%
10	Index2	48.0%	52.0%	4.0%	49.0%	51.0%	2.0%	1.0%	-1.0%	-2.0%
10	Index3	47.8%	52.2%	4.4%	48.9%	51.1%	2.2%	1.1%	-1.1%	-2.2%
10	Index4	50.7%	49.3%	1.4%	51.7%	48.3%	3.4%	1.0%	-1.0%	2.0%
10	Index5	50.1%	49.9%	0.2%	51.1%	48.9%	2.2%	1.0%	-1.0%	2.0%
10	Index6	48.0%	52.0%	4.0%	49.1%	50.9%	1.8%	1.1%	-1.1%	-2.2%
10	Index7	47.9%	52.1%	4.2%	49.0%	51.0%	2.0%	1.1%	-1.1%	-2.2%
10	Index8	47.8%	52.2%	4.4%	48.8%	51.2%	2.4%	1.0%	-1.0%	-2.0%
10	Index9	47.7%	52.3%	4.6%	48.8%	51.2%	2.4%	1.1%	-1.1%	-2.2%
								0.9%	-1.0%	0.1%
11	Index2	58.7%	41.3%	17.4%	57.5%	42.5%	15.0%	-1.2%	1.2%	-2.4%
11	Index3	58.5%	41.5%	17.0%	56.6%	43.4%	13.2%	-1.9%	1.9%	-3.8%
11	Index4	60.3%	39.7%	20.6%	59.1%	40.9%	18.2%	-1.2%	1.2%	-2.4%
11	Index5	59.9%	40.1%	19.8%	58.2%	41.8%	16.4%	-1.7%	1.7%	-3.4%
11	Index6	58.4%	41.6%	16.8%	57.1%	42.9%	14.2%	-1.3%	1.3%	-2.6%
11	Index7	58.3%	41.7%	16.6%	56.7%	43.3%	13.4%	-1.6%	1.6%	-3.2%
11	Index8	58.3%	41.7%	16.6%	57.0%	43.0%	14.0%	-1.3%	1.3%	-2.6%
11	Index9	58.2%	41.8%	16.4%	56.5%	43.5%	13.0%	-1.7%	1.7%	-3.4%
								-1.4%	2.9%	-1.5%
12	Index2	66.1%	33.9%	32.2%	64.8%	35.2%	29.6%	-1.3%	1.3%	-2.6%
12	Index3	67.2%	32.8%	34.4%	66.0%	34.0%	32.0%	-1.2%	1.2%	-2.4%
12	Index4	68.3%	31.7%	36.6%	67.4%	32.6%	34.8%	-0.9%	0.9%	-1.8%

12	Index5	68.6%	31.4%	37.2%	67.6%	32.4%	35.2%	-1.0%	1.0%	-2.0%
12	Index6	66.6%	33.4%	33.2%	65.7%	34.3%	31.4%	-0.9%	0.9%	-1.8%
12	Index7	67.2%	32.8%	34.4%	66.2%	33.8%	32.4%	-1.0%	1.0%	-2.0%
12	Index8	66.2%	33.8%	32.4%	65.1%	34.9%	30.2%	-1.1%	1.1%	-2.2%
12	Index9	67.0%	33.0%	34.0%	65.9%	34.1%	31.8%	-1.1%	1.1%	-2.2%
								-1.1%	0.7%	0.4%
13	Index2	64.7%	35.3%	29.4%	64.1%	35.9%	28.2%	-0.6%	0.6%	-1.2%
13	Index3	63.8%	36.2%	27.6%	63.4%	36.6%	26.8%	-0.4%	0.4%	-0.8%
13	Index4	65.9%	34.1%	31.8%	65.5%	34.5%	31.0%	-0.4%	0.4%	-0.8%
13	Index5	65.1%	34.9%	30.2%	64.8%	35.2%	29.6%	-0.3%	0.3%	-0.6%
13	Index6	64.7%	35.3%	29.4%	64.3%	35.7%	28.6%	-0.4%	0.4%	-0.8%
13	Index7	64.1%	35.9%	28.2%	63.9%	36.1%	27.8%	-0.2%	0.2%	-0.4%
13	Index8	64.5%	35.5%	29.0%	64.0%	36.0%	28.0%	-0.5%	0.5%	-1.0%
13	Index9	63.8%	36.2%	27.6%	63.5%	36.5%	27.0%	-0.3%	0.3%	-0.6%
								-0.1%	-0.3%	0.3%
14	Index2	60.6%	39.4%	21.2%	60.5%	39.5%	21.0%	-0.1%	0.1%	-0.2%
14	Index3	59.3%	40.7%	18.6%	59.2%	40.8%	18.4%	-0.1%	0.1%	-0.2%
14	Index4	61.7%	38.3%	23.4%	61.5%	38.5%	23.0%	-0.2%	0.2%	-0.4%
14	Index5	60.7%	39.3%	21.4%	60.5%	39.5%	21.0%	-0.2%	0.2%	-0.4%
14	Index6	60.5%	39.5%	21.0%	60.3%	39.7%	20.6%	-0.2%	0.2%	-0.4%
14	Index7	59.8%	40.2%	19.6%	59.6%	40.4%	19.2%	-0.2%	0.2%	-0.4%
14	Index8	60.3%	39.7%	20.6%	60.2%	39.8%	20.4%	-0.1%	0.1%	-0.2%
14	Index9	59.5%	40.5%	19.0%	59.3%	40.7%	18.6%	-0.2%	0.2%	-0.4%
								-0.1%	0.2%	0.0%
15	Index2	61.5%	38.5%	23.0%	59.3%	40.7%	18.6%	-2.2%	2.2%	-4.4%
15	Index3	62.5%	37.5%	25.0%	60.1%	39.9%	20.2%	-2.4%	2.4%	-4.8%
15	Index4	63.8%	36.2%	27.6%	62.1%	37.9%	24.2%	-1.7%	1.7%	-3.4%
15	Index5	64.0%	36.0%	28.0%	62.0%	38.0%	24.0%	-2.0%	2.0%	-4.0%
15	Index6	62.0%	38.0%	24.0%	60.2%	39.8%	20.4%	-1.8%	1.8%	-3.6%
15	Index7	62.5%	37.5%	25.0%	60.5%	39.5%	21.0%	-2.0%	2.0%	-4.0%
15	Index8	61.5%	38.5%	23.0%	59.6%	40.4%	19.2%	-1.9%	1.9%	-3.8%
15	Index9	62.3%	37.7%	24.6%	60.1%	39.9%	20.2%	-2.2%	2.2%	-4.4%
								-2.7%	1.3%	1.3%
16	Index2	61.2%	38.8%	22.4%	61.6%	38.4%	23.2%	0.4%	-0.4%	0.8%
16	Index3	61.5%	38.5%	23.0%	62.1%	37.9%	24.2%	0.6%	-0.6%	1.2%
16	Index4	63.2%	36.8%	26.4%	63.5%	36.5%	27.0%	0.3%	-0.3%	0.6%
16	Index5	63.0%	37.0%	26.0%	63.4%	36.6%	26.8%	0.4%	-0.4%	0.8%
16	Index6	61.5%	38.5%	23.0%	61.8%	38.2%	23.6%	0.3%	-0.3%	0.6%
16	Index7	61.6%	38.4%	23.2%	62.0%	38.0%	24.0%	0.4%	-0.4%	0.8%
16	Index8	61.1%	38.9%	22.2%	61.5%	38.5%	23.0%	0.4%	-0.4%	0.8%
16	Index9	61.4%	38.6%	22.8%	61.9%	38.1%	23.8%	0.5%	-0.5%	1.0%
								0.9%	-0.3%	-0.7%

17	Index2	57.9%	42.1%	15.8%	57.2%	42.8%	14.4%	-0.7%	0.7%	-1.4%
17	Index3	58.8%	41.2%	17.6%	58.1%	41.9%	16.2%	-0.7%	0.7%	-1.4%
17	Index4	60.8%	39.2%	21.6%	60.2%	39.8%	20.4%	-0.6%	0.6%	-1.2%
17	Index5	60.8%	39.2%	21.6%	60.2%	39.8%	20.4%	-0.6%	0.6%	-1.2%
17	Index6	58.8%	41.2%	17.6%	58.1%	41.9%	16.2%	-0.7%	0.7%	-1.4%
17	Index7	59.2%	40.8%	18.4%	58.5%	41.5%	17.0%	-0.7%	0.7%	-1.4%
17	Index8	58.2%	41.8%	16.4%	57.5%	42.5%	15.0%	-0.7%	0.7%	-1.4%
17	Index9	58.8%	41.2%	17.6%	58.1%	41.9%	16.2%	-0.7%	0.7%	-1.4%
								-0.6%	0.4%	0.2%
18	Index2	51.5%	48.5%	3.0%	50.1%	49.9%	0.2%	-1.4%	1.4%	-2.8%
18	Index3	52.9%	47.1%	5.8%	51.5%	48.5%	3.0%	-1.4%	1.4%	-2.8%
18	Index4	55.0%	45.0%	10.0%	53.7%	46.3%	7.4%	-1.3%	1.3%	-2.6%
18	Index5	55.1%	44.9%	10.2%	53.8%	46.2%	7.6%	-1.3%	1.3%	-2.6%
18	Index6	52.3%	47.7%	4.6%	51.0%	49.0%	2.0%	-1.3%	1.3%	-2.6%
18	Index7	53.0%	47.0%	6.0%	51.6%	48.4%	3.2%	-1.4%	1.4%	-2.8%
18	Index8	51.7%	48.3%	3.4%	50.3%	49.7%	0.6%	-1.4%	1.4%	-2.8%
18	Index9	52.7%	47.3%	5.4%	51.3%	48.7%	2.6%	-1.4%	1.4%	-2.8%
								-1.2%	0.8%	0.5%
19	Index2	37.1%	62.9%	25.8%	37.1%	62.9%	25.8%	0.0%	0.0%	0.0%
19	Index3	35.8%	64.2%	28.4%	35.8%	64.2%	28.4%	0.0%	0.0%	0.0%
19	Index4	43.6%	56.4%	12.8%	43.5%	56.5%	13.0%	-0.1%	0.1%	0.2%
19	Index5	41.5%	58.5%	17.0%	41.5%	58.5%	17.0%	0.0%	0.0%	0.0%
19	Index6	41.2%	58.8%	17.6%	41.2%	58.8%	17.6%	0.0%	0.0%	0.0%
19	Index7	39.6%	60.4%	20.8%	39.6%	60.4%	20.8%	0.0%	0.0%	0.0%
19	Index8	39.6%	60.4%	20.8%	39.6%	60.4%	20.8%	0.0%	0.0%	0.0%
19	Index9	38.0%	62.0%	24.0%	38.0%	62.0%	24.0%	0.0%	0.0%	0.0%
								0.1%	-0.1%	0.0%
20	Index2	56.6%	43.4%	13.2%	57.9%	42.1%	15.8%	1.3%	-1.3%	2.6%
20	Index3	56.4%	43.6%	12.8%	57.5%	42.5%	15.0%	1.1%	-1.1%	2.2%
20	Index4	59.4%	40.6%	18.8%	60.1%	39.9%	20.2%	0.7%	-0.7%	1.4%
20	Index5	58.7%	41.3%	17.4%	59.5%	40.5%	19.0%	0.8%	-0.8%	1.6%
20	Index6	57.5%	42.5%	15.0%	58.3%	41.7%	16.6%	0.8%	-0.8%	1.6%
20	Index7	57.2%	42.8%	14.4%	58.0%	42.0%	16.0%	0.8%	-0.8%	1.6%
20	Index8	56.9%	43.1%	13.8%	57.8%	42.2%	15.6%	0.9%	-0.9%	1.8%
20	Index9	56.7%	43.3%	13.4%	57.6%	42.4%	15.2%	0.9%	-0.9%	1.8%
								0.9%	-0.3%	-0.6%
21	Index2	57.8%	42.2%	15.6%	57.8%	42.2%	15.6%	0.0%	0.0%	0.0%
21	Index3	57.4%	42.6%	14.8%	57.4%	42.6%	14.8%	0.0%	0.0%	0.0%
21	Index4	59.9%	40.1%	19.8%	59.9%	40.1%	19.8%	0.0%	0.0%	0.0%
21	Index5	59.2%	40.8%	18.4%	59.2%	40.8%	18.4%	0.0%	0.0%	0.0%
21	Index6	58.3%	41.7%	16.6%	58.3%	41.7%	16.6%	0.0%	0.0%	0.0%
21	Index7	58.0%	42.0%	16.0%	58.0%	42.0%	16.0%	0.0%	0.0%	0.0%
21	Index8	57.9%	42.1%	15.8%	57.9%	42.1%	15.8%	0.0%	0.0%	0.0%

21	Index9	57.6%	42.4%	15.2%	57.5%	42.5%	15.0%	-0.1%	0.1%	-0.2%
								0.0%	0.0%	0.1%
22	Index2	63.9%	36.1%	27.8%	64.1%	35.9%	28.2%	0.2%	-0.2%	0.4%
22	Index3	64.6%	35.4%	29.2%	64.9%	35.1%	29.8%	0.3%	-0.3%	0.6%
22	Index4	64.8%	35.2%	29.6%	65.0%	35.0%	30.0%	0.2%	-0.2%	0.4%
22	Index5	65.0%	35.0%	30.0%	65.3%	34.7%	30.6%	0.3%	-0.3%	0.6%
22	Index6	63.2%	36.8%	26.4%	63.5%	36.5%	27.0%	0.3%	-0.3%	0.6%
22	Index7	63.8%	36.2%	27.6%	64.1%	35.9%	28.2%	0.3%	-0.3%	0.6%
22	Index8	63.2%	36.8%	26.4%	63.4%	36.6%	26.8%	0.2%	-0.2%	0.4%
22	Index9	63.9%	36.1%	27.8%	64.2%	35.8%	28.4%	0.3%	-0.3%	0.6%
								0.4%	-0.3%	-0.1%
23	Index2	62.0%	38.0%	24.0%	62.9%	37.1%	25.8%	0.9%	-0.9%	1.8%
23	Index3	63.9%	36.1%	27.8%	64.8%	35.2%	29.6%	0.9%	-0.9%	1.8%
23	Index4	63.6%	36.4%	27.2%	64.3%	35.7%	28.6%	0.7%	-0.7%	1.4%
23	Index5	64.4%	35.6%	28.8%	65.1%	34.9%	30.2%	0.7%	-0.7%	1.4%
23	Index6	61.8%	38.2%	23.6%	62.5%	37.5%	25.0%	0.7%	-0.7%	1.4%
23	Index7	62.9%	37.1%	25.8%	63.7%	36.3%	27.4%	0.8%	-0.8%	1.6%
23	Index8	61.6%	38.4%	23.2%	62.3%	37.7%	24.6%	0.7%	-0.7%	1.4%
23	Index9	63.1%	36.9%	26.2%	63.9%	36.1%	27.8%	0.8%	-0.9%	1.6%
								0.8%	-0.6%	-0.2%
24	Index2	38.4%	61.6%	23.2%	42.2%	57.8%	15.6%	3.8%	-3.8%	-7.6%
24	Index3	38.5%	61.5%	23.0%	42.9%	57.1%	14.2%	4.4%	-4.4%	-8.8%
24	Index4	43.0%	57.0%	14.0%	46.3%	53.7%	7.4%	3.3%	-3.3%	-6.6%
24	Index5	42.2%	57.8%	15.6%	45.9%	54.1%	8.2%	3.7%	-3.7%	-7.4%
24	Index6	40.1%	59.9%	19.8%	43.4%	56.6%	13.2%	3.3%	-3.3%	-6.6%
24	Index7	39.8%	60.2%	20.4%	43.6%	56.4%	12.8%	3.8%	-3.8%	-7.6%
24	Index8	39.2%	60.8%	21.6%	42.7%	57.3%	14.6%	3.5%	-3.5%	-7.0%
24	Index9	39.1%	60.9%	21.8%	43.1%	56.9%	13.8%	4.0%	-4.0%	-8.0%
								4.0%	-3.2%	-0.8%
25	Index2	64.6%	35.4%	29.2%	65.3%	34.7%	30.6%	0.7%	-0.7%	1.4%
25	Index3	65.3%	34.7%	30.6%	66.1%	33.9%	32.2%	0.8%	-0.8%	1.6%
25	Index4	66.6%	33.4%	33.2%	67.1%	32.9%	34.2%	0.5%	-0.5%	1.0%
25	Index5	66.7%	33.3%	33.4%	67.2%	32.8%	34.4%	0.5%	-0.5%	1.0%
25	Index6	65.1%	34.9%	30.2%	65.7%	34.3%	31.4%	0.6%	-0.6%	1.2%
25	Index7	65.5%	34.5%	31.0%	66.1%	33.9%	32.2%	0.6%	-0.6%	1.2%
25	Index8	64.6%	35.4%	29.2%	65.2%	34.8%	30.4%	0.6%	-0.6%	1.2%
25	Index9	65.2%	34.8%	30.4%	65.9%	34.1%	31.8%	0.7%	-0.7%	1.4%
								0.5%	-0.6%	0.1%
26	Index2	41.9%	58.1%	16.2%	50.9%	49.1%	1.8%	9.0%	-9.0%	-14.4%
26	Index3	42.6%	57.4%	14.8%	51.2%	48.8%	2.4%	8.6%	-8.6%	-12.4%
26	Index4	47.1%	52.9%	5.8%	54.9%	45.1%	9.8%	7.8%	-7.8%	4.0%
26	Index5	46.5%	53.5%	7.0%	54.3%	45.7%	8.6%	7.8%	-7.8%	1.6%

26	Index6	44.3%	55.7%	11.4%	52.5%	47.5%	5.0%	8.2%	-8.2%	-6.4%
26	Index7	44.2%	55.8%	11.6%	52.4%	47.6%	4.8%	8.2%	-8.2%	-6.8%
26	Index8	43.2%	56.8%	13.6%	51.7%	48.3%	3.4%	8.5%	-8.5%	-10.2%
26	Index9	43.4%	56.6%	13.2%	51.7%	48.3%	3.4%	8.3%	-8.3%	-9.8%
								6.5%	-3.2%	-3.3%
27	Index2	27.4%	72.6%	45.2%	26.9%	73.1%	46.2%	-0.5%	0.5%	1.0%
27	Index3	26.1%	73.9%	47.8%	25.5%	74.5%	49.0%	-0.6%	0.6%	1.2%
27	Index4	32.1%	67.9%	35.8%	31.6%	68.4%	36.8%	-0.5%	0.5%	1.0%
27	Index5	30.4%	69.6%	39.2%	29.8%	70.2%	40.4%	-0.6%	0.6%	1.2%
27	Index6	29.3%	70.7%	41.4%	28.8%	71.2%	42.4%	-0.5%	0.5%	1.0%
27	Index7	28.1%	71.9%	43.8%	27.6%	72.4%	44.8%	-0.5%	0.5%	1.0%
27	Index8	28.5%	71.5%	43.0%	27.9%	72.1%	44.2%	-0.6%	0.6%	1.2%
27	Index9	27.2%	72.8%	45.6%	26.7%	73.3%	46.6%	-0.5%	0.5%	1.0%
								-0.2%	0.4%	-0.1%
28	Index2	54.8%	45.2%	9.6%	55.2%	44.8%	10.4%	0.4%	-0.4%	0.8%
28	Index3	55.8%	44.2%	11.6%	56.1%	43.9%	12.2%	0.3%	-0.3%	0.6%
28	Index4	57.6%	42.4%	15.2%	58.1%	41.9%	16.2%	0.5%	-0.5%	1.0%
28	Index5	57.6%	42.4%	15.2%	58.0%	42.0%	16.0%	0.4%	-0.4%	0.8%
28	Index6	55.4%	44.6%	10.8%	56.0%	44.0%	12.0%	0.6%	-0.6%	1.2%
28	Index7	55.9%	44.1%	11.8%	56.4%	43.6%	12.8%	0.5%	-0.5%	1.0%
28	Index8	54.8%	45.2%	9.6%	55.4%	44.6%	10.8%	0.6%	-0.6%	1.2%
28	Index9	55.6%	44.4%	11.2%	56.0%	44.0%	12.0%	0.4%	-0.4%	0.8%
								-0.4%	-0.3%	0.7%
29	Index2	39.4%	60.6%	21.2%	38.1%	61.9%	23.8%	-1.3%	1.3%	2.6%
29	Index3	38.0%	62.0%	24.0%	36.5%	63.5%	27.0%	-1.5%	1.5%	3.0%
29	Index4	45.0%	55.0%	10.0%	44.2%	55.8%	11.6%	-0.8%	0.8%	1.6%
29	Index5	43.1%	56.9%	13.8%	42.1%	57.9%	15.8%	-1.0%	1.0%	2.0%
29	Index6	43.0%	57.0%	14.0%	42.2%	57.8%	15.6%	-0.8%	0.8%	1.6%
29	Index7	41.4%	58.6%	17.2%	40.4%	59.6%	19.2%	-1.0%	1.0%	2.0%
29	Index8	41.5%	58.5%	17.0%	40.5%	59.5%	19.0%	-1.0%	1.0%	2.0%
29	Index9	39.9%	60.1%	20.2%	38.7%	61.3%	22.6%	-1.2%	1.2%	2.4%
								-1.2%	1.0%	0.2%
30	Index2	42.6%	57.4%	14.8%	37.3%	62.7%	25.4%	-5.3%	5.3%	10.6%
30	Index3	41.2%	58.8%	17.6%	36.2%	63.8%	27.6%	-5.0%	5.0%	10.0%
30	Index4	47.2%	52.8%	5.6%	42.2%	57.8%	15.6%	-5.0%	5.0%	10.0%
30	Index5	45.4%	54.6%	9.2%	40.6%	59.4%	18.8%	-4.8%	4.8%	9.6%
30	Index6	45.0%	55.0%	10.0%	39.7%	60.3%	20.6%	-5.3%	5.3%	10.6%
30	Index7	43.7%	56.3%	12.6%	38.6%	61.4%	22.8%	-5.1%	5.1%	10.2%
30	Index8	43.9%	56.1%	12.2%	38.6%	61.4%	22.8%	-5.3%	5.3%	10.6%
30	Index9	42.5%	57.5%	15.0%	37.5%	62.5%	25.0%	-5.0%	5.0%	10.0%
								-2.6%	2.5%	0.1%

Index 2: Average of 2008 and 2010, each year weighted equally

Index 3: Average of 2008, 2010 and % of major party Registration, each of the three components weighted equally
Index 4: Average of 2004, 2006, 2008 and 2010, each year weighted equally
Index 5: Average of 2004, 2006, 2008, 2010 and % of major party registration, each component weighted equally
Index 6: Average of 2004, 2006, 2008, 2010 each year weighted equally, races where one candidate received more than 60% of the 2-way vote removed
Index 7: Average of 2004, 2006, 2008, 2010 and % of major party registration, each weighted equally, races where one candidate received more than 60% of the 2-way vote removed
Index 8: Weighted average of 2004 (1/6th), 2006 (1/6th), and 2008 (1/3rd), 2010 (1/3rd), races where one candidate received more than 60% of the 2-way vote removed
Index 9: Weighted average of 2004 (1/8th), 2006 (1/8th), 2008 (1/4th), 2010 (1/4th) and % of major party registration (1/4th), races where one candidate received more than 60% of the 2-way vote removed

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For two major reasons, there is limited geographic correlation between the Benchmark Districts and Proposed Districts. First, under Arizona's Constitution, the Commission must begin the redistricting process by creating a grid-like pattern of districts with equal population and then adjusting those districts to comply with the Voting Rights Act and other state constitutional criteria. Ariz. Const. art. IV, pt. 2 § 1(14). Beginning from a grid results in different numbering and geography for the Proposed Districts. Second, population increases over the past decade required significant changes in the Benchmark Plan. Arizona's population grew from 5,130,632 in 2000 to 6,392,017 in 2010, an increase of 24.6%. (*Compare* **Exhibit 13** (Benchmark Plan Demographic Data Using 2000 Census Numbers), *with* **Exhibit 3-A** (Benchmark Plan Demographic Data Using 2010 Census Numbers).) Using 2010 Census data, population in the thirty Benchmark Districts ranges from 155,897 (26.8% below the ideal population of 213,067) to 378,298 (77.6% above the ideal population). As required by the federal and state constitutions, the Proposed Plan significantly reduces these disparities – another reason for the limited geographic correlation. The Proposed Districts range between 203,026 (4.7% below the ideal population) to 221,735 (4.1% above the ideal population).

1. Demographic Data for Proposed Districts and Benchmark Districts

Included below are tables showing demographic information for both the Proposed Districts and the Benchmark Districts. Separate tables are provided showing total population and voting age population. The majority-minority districts in each Plan are indicated in bold within the tables. More detailed demographic data can be found in **Exhibits 2-A** (Proposed Districts) and **3-A** (Benchmark Districts).

Table 1: Population Summary of Proposed Legislative Districts using 2010 Census Data

Proposed District	Pop. #	Deviation From Ideal Pop. # (%)	Hispanic # (%)	Non Hispanic (NH) White # (%)	NH African American # (%)	NH Native American # (%)	NH Asian # (%)	NH Hawaiian # (%)	NH Multi-Race and Other # (%)
1	216,451	3,383 (1.6%)	24,035 (11.1%)	181,967 (84.1%)	2,526 (1.2%)	3,054 (1.4%)	3,712 (1.7%)	367 (0.2%)	790 (0.4%)
2	204,615	-8452 (-4.0%)	121,900 (59.6%)	69,116 (33.8%)	6,456 (3.2%)	3,177 (1.6%)	2,872 (1.4%)	269 (0.1%)	825 (0.4%)
3	204,613	-8,454 (-4.0%)	115,569 (56.5%)	67,222 (32.9%)	6,665 (3.3%)	8,279 (4.0%)	5,588 (2.7%)	225 (0.1%)	1,065 (0.5%)

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Proposed District	Pop.	Deviation From Ideal Pop.	Hispanic	NH White	NH Black or African American	NH American Indian	NH Asian	NH Native Hawaiian	NH Multi-Race and Other
			(%)	(%)	(%)	(%)	(%)	(%)	(%)
4	**204,143**	**-8,924 (-4.2%)**	**123,594 (60.5%)**	**58,192 (28.5%)**	**6,439 (3.2%)**	**12,195 (6.0%)**	**2,597 (1.3%)**	**262 (0.1%)**	**864 (0.4%)**
5	219,040	5,972 (2.8%)	34,316 (15.7%)	172,081 (78.6%)	2,428 (1.1%)	6,187 (2.8%)	2,800 (1.3%)	453 (0.2%)	775 (0.4%)
6	214,244	1,176 (0.6%)	33,176 (15.5%)	159,161 (74.3%)	2,540 (1.2%)	14,859 (6.9%)	3,171 (1.5%)	357 (0.2%)	980 (0.5%)
7	203,026	-10,041 (-4.7%)	13,878 (6.8%)	50,373 (24.8%)	1,123 (0.6%)	135,744 (66.9%)	905 (0.4%)	126 (0.1%)	877 (0.4%)
8	**208,422**	**-4,645 (-2.2%)**	**72,456 (34.8%)**	**104,152 (50.0%)**	**10,132 (4.9%)**	**15,434 (7.4%)**	**3,613 (1.7%)**	**1,351 (0.6%)**	**1,284 (0.6%)**
9	213,224	156 (0.1%)	46,661 (21.9%)	146,025 (68.5%)	6,987 (3.3%)	2,903 (1.4%)	9,036 (4.2%)	433 (0.2%)	1,179 (0.6%)
10	211,073	-1,994 (-0.9%)	49,128 (23.3%)	138,868 (65.8%)	10,979 (5.2%)	2,685 (1.3%)	7,525 (3.6%)	531 (0.3%)	1,357 (0.6%)
11	213,377	309 (0.1%)	48,249 (22.6%)	145,091 (68.0%)	8,206 (3.8%)	4,060 (1.9%)	6,244 (2.9%)	416 (0.2%)	1,111 (0.5%)
12	221,735	8,667 (4.1%)	34,578 (15.6%)	162,476 (73.3%)	8,188 (3.7%)	2,005 (0.9%)	12,664 (5.7%)	601 (0.3%)	1,223 (0.6%)
13	211,701	-1,336 (-0.6%)	66,106 (31.2%)	126,954 (60.0%)	8,514 (4.0%)	2,586 (1.2%)	6,015 (2.8%)	423 (0.2%)	1,103 (0.5%)
14	217,693	4,625 (2.2%)	67,082 (30.8%)	132,552 (60.9%)	8,109 (3.7%)	3,000 (1.4%)	4,935 (2.3%)	666 (0.3%)	1,349 (0.6%)
15	214,941	1,873 (0.9%)	22,035 (10.3%)	172,110 (80.1%)	5,060 (2.4%)	1,964 (0.9%)	12,257 (5.7%)	418 (0.2%)	1,097 (0.5%)
16	220,157	7,089 (3.3%)	36,222 (16.5%)	169,113 (76.8%)	5,837 (2.7%)	2,694 (1.2%)	4,828 (2.2%)	553 (0.3%)	910 (0.4%)
17	221,174	8,106 (3.8%)	47,472 (21.5%)	140,660 (63.6%)	10,486 (4.7%)	2,801 (1.3%)	17,884 (8.1%)	511 (0.2%)	1,360 (0.6%)
18	218,677	5,609 (2.6%)	31,641 (14.5%)	153,658 (70.3%)	11,670 (5.3%)	3,849 (1.8%)	15,709 (7.2%)	666 (0.3%)	1,484 (0.7%)
19	**207,088**	**-5,979 (-2.8%)**	**134,862 (65.1%)**	**45,004 (21.7%)**	**17,208 (8.3%)**	**2,755 (1.3%)**	**5,509 (2.7%)**	**470 (0.2%)**	**1,280 (0.6%)**
20	218,167	5,099 (2.4%)	46,856 (21.5%)	148,114 (67.9%)	9,777 (4.5%)	3,879 (1.8%)	7,845 (3.6%)	478 (0.2%)	1,218 (0.6%)
21	216,242	3,174 (1.5%)	53,053 (24.5%)	143,644 (66.4%)	10,044 (4.6%)	2,294 (1.1%)	5,643 (2.6%)	448 (0.2%)	1,116 (0.5%)
22	215,912	2,844 (1.3%)	22,375 (10.4%)	175,513 (81.3%)	6,786 (3.1%)	1,477 (0.7%)	8,317 (3.9%)	401 (0.2%)	1,043 (0.5%)
23	213,451	383 (0.2%)	12,212 (5.7%)	186,190 (87.2%)	3,459 (1.6%)	2,094 (1.0%)	8,422 (3.9%)	258 (0.1%)	816 (0.4%)
24	**206,659**	**-6,408 (-3.0%)**	**85,381 (41.3%)**	**92,695 (44.9%)**	**14,173 (6.9%)**	**7,459 (3.6%)**	**5,114 (2.5%)**	**399 (0.2%)**	**1,438 (0.7%)**
25	220,795	7,727 (3.6%)	43,023 (19.5%)	160,255 (72.6%)	6,982 (3.2%)	4,433 (2.0%)	4,239 (1.9%)	726 (0.3%)	1,137 (0.5%)
26	213,659	591 (0.3%)	82,251 (38.5%)	96,917 (45.4%)	12,378 (5.8%)	11,018 (5.2%)	8,374 (3.9%)	1,166 (0.5%)	1,555 (0.7%)

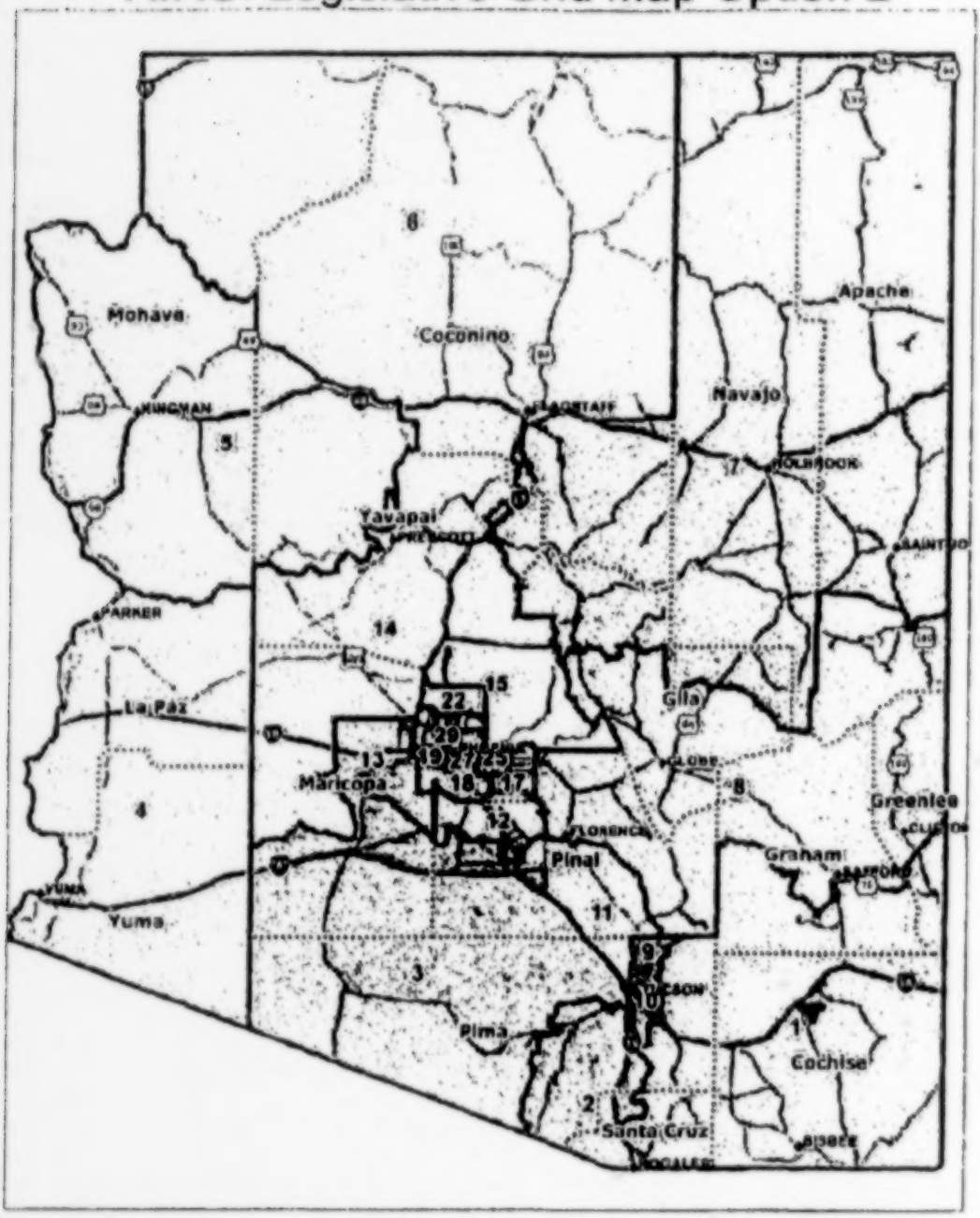
Proposed District	Pop.	Deviation from Ideal Pop.	Hispanic	Non-Hispanic (NH) White	NH African American	NH American Indian/ Native American	NH Asian	NH Native Hawaiian	NH Multi-Race and Other
27	204,195	-8,872 (-4.2%)	116,568 (57.1%)	40,058 (19.6%)	31,134 (15.2%)	8,066 (4.0%)	6,299 (3.1%)	496 (0.2%)	1,574 (0.8%)
28	218,713	5,645 (2.6%)	48,111 (22.0%)	152,121 (69.6%)	6,840 (3.1%)	3,598 (1.6%)	6,624 (3.0%)	337 (0.2%)	1,082 (0.5%)
29	211,067	-2,000 (-0.9%)	142,923 (67.7%)	45,815 (21.7%)	13,525 (6.4%)	2,600 (1.2%)	4,826 (2.3%)	264 (0.1%)	1,114 (0.5%)
30	207,763	-5,304 (-2.5%)	119,436 (57.5%)	59,550 (28.7%)	14,006 (6.7%)	5,226 (2.5%)	7,780 (3.7%)	402 (0.2%)	1,363 (0.7%)

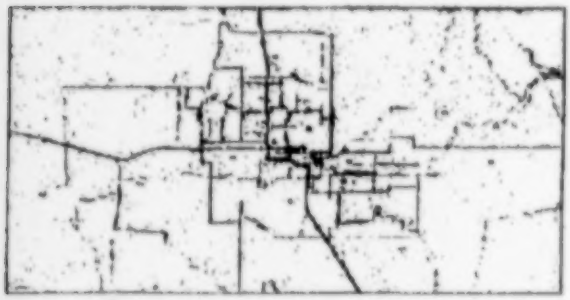
Table 2: Voting Age Population Summary of Proposed Legislative Districts using 2010 Census Data

Proposed District	Total VAP	Hispanic VAP	Non-Hispanic (NH) White VAP	NH African American VAP	NH American Indian/ Native American VAP	NH Asian VAP	NH Native Hawaiian VAP	NH Multi-Race and Other VAP
1	170,136 (78.6%)	15,190 (8.9%)	147,538 (86.7%)	1,680 (1.0%)	2,329 (1.4%)	2,611 (1.5%)	263 (0.2%)	525 (0.3%)
2	148,925 (72.8%)	78,653 (52.8%)	60,416 (40.6%)	4,718 (3.2%)	2,270 (1.5%)	2,168 (1.5%)	198 (0.1%)	502 (0.3%)
3	154,745 (75.6%)	77,451 (50.1%)	60,946 (39.4%)	4,956 (3.2%)	5,628 (3.6%)	4,876 (3.2%)	165 (0.1%)	723 (0.5%)
4	141,485 (69.3%)	78,816 (55.7%)	47,013 (33.2%)	4,719 (3.3%)	8,362 (5.9%)	1,888 (1.3%)	192 (0.1%)	495 (0.3%)
5	174,701 (79.8%)	22,009 (12.6%)	143,620 (82.2%)	1,618 (0.9%)	4,481 (2.6%)	2,151 (1.2%)	321 (0.2%)	501 (0.3%)
6	169,965 (79.3%)	21,327 (12.5%)	132,925 (78.2%)	1,865 (1.1%)	10,382 (6.1%)	2,570 (1.5%)	262 (0.2%)	634 (0.4%)
7	139,259 (68.6%)	8,545 (6.1%)	40,013 (28.7%)	840 (0.6%)	88,758 (63.7%)	662 (0.5%)	81 (0.1%)	360 (0.3%)
8	153,405 (73.6%)	48,030 (31.3%)	81,918 (53.4%)	7,269 (4.7%)	11,423 (7.4%)	2,769 (1.8%)	1,181 (0.8%)	815 (0.5%)
9	172,120 (80.7%)	31,504 (18.3%)	125,635 (73.0%)	4,794 (2.8%)	2,206 (1.3%)	6,878 (4.0%)	301 (0.2%)	802 (0.5%)
10	166,639 (78.9%)	32,487 (19.5%)	117,413 (70.5%)	7,739 (4.6%)	1,983 (1.2%)	5,789 (3.5%)	383 (0.2%)	845 (0.5%)
11	160,257 (75.1%)	29,474 (18.4%)	117,449 (73.3%)	5,258 (3.3%)	2,776 (1.7%)	4,384 (2.7%)	249 (0.2%)	667 (0.4%)
12	147,754 (66.6%)	20,504 (13.9%)	111,743 (75.6%)	4,857 (3.3%)	1,288 (0.9%)	8,376 (5.7%)	349 (0.2%)	637 (0.4%)
13	156,650 (74.0%)	40,759 (26.0%)	103,306 (65.9%)	5,616 (3.6%)	1,950 (1.2%)	4,117 (2.6%)	285 (0.2%)	617 (0.4%)

Proposed District	Total VAP	Hispanic VAP	Non-Hispanic (NH) White VAP	NH African American VAP	NH Native American VAP	NH Asian VAP	NH Hawaiian VAP	NH Multi-Race and Other VAP
	Deviation from Ideal (%)	# (%)	# (%)	# (%)	# (%)	# (%)	# (%)	# (%)
14	163,012 (74.9%)	43,999 (27.0%)	105,951 (65.0%)	5,783 (3.5%)	2,360 (1.4%)	3,672 (2.3%)	464 (0.3%)	783 (0.5%)
15	162,579 (75.6%)	13,970 (8.6%)	133,974 (82.4%)	3,369 (2.1%)	1,386 (0.9%)	8,909 (5.5%)	285 (0.2%)	686 (0.4%)
16	164,719 (74.8%)	21,337 (13.0%)	133,781 (81.2%)	3,608 (2.2%)	1,874 (1.1%)	3,299 (2.0%)	325 (0.2%)	495 (0.3%)
17	161,935 (73.2%)	29,525 (18.2%)	110,213 (68.1%)	6,913 (4.3%)	1,868 (1.2%)	12,277 (7.6%)	346 (0.2%)	793 (0.5%)
18	168,966 (77.3%)	21,459 (12.7%)	124,070 (73.4%)	7,910 (4.7%)	2,725 (1.6%)	11,451 (6.8%)	449 (0.3%)	902 (0.5%)
19	133,549 (64.5%)	80,622 (60.4%)	35,275 (26.4%)	10,697 (8.0%)	1,915 (1.4%)	4,008 (3.0%)	334 (0.3%)	698 (0.5%)
20	166,570 (76.3%)	29,476 (17.7%)	120,748 (72.5%)	6,528 (3.9%)	2,737 (1.6%)	5,958 (3.6%)	331 (0.2%)	792 (0.5%)
21	164,688 (76.2%)	32,423 (19.7%)	119,158 (72.4%)	6,510 (4.0%)	1,580 (1.0%)	4,100 (2.5%)	290 (0.2%)	627 (0.4%)
22	167,688 (77.7%)	13,708 (8.2%)	141,890 (84.6%)	4,401 (2.6%)	1,013 (0.6%)	5,804 (3.5%)	271 (0.2%)	601 (0.4%)
23	176,271 (82.6%)	8,631 (4.9%)	156,821 (89.0%)	2,546 (1.4%)	1,549 (0.9%)	5,981 (3.4%)	184 (0.1%)	559 (0.3%)
24	157,984 (76.4%)	53,875 (34.1%)	82,855 (52.4%)	10,391 (6.6%)	5,426 (3.4%)	4,185 (2.6%)	291 (0.2%)	961 (0.6%)
25	167,944 (76.1%)	26,254 (15.6%)	129,933 (77.4%)	4,610 (2.7%)	2,917 (1.7%)	3,117 (1.9%)	465 (0.3%)	648 (0.4%)
26	164,423 (77.0%)	52,537 (32.0%)	85,964 (52.3%)	9,002 (5.5%)	7,602 (4.6%)	7,468 (4.5%)	785 (0.5%)	1,065 (0.6%)
27	140,329 (68.7%)	73,051 (52.1%)	34,090 (24.3%)	21,620 (15.4%)	5,467 (3.9%)	4,819 (3.4%)	354 (0.3%)	928 (0.7%)
28	169,608 (77.5%)	30,085 (17.7%)	126,340 (74.5%)	4,722 (2.8%)	2,604 (1.5%)	4,979 (2.9%)	232 (0.1%)	646 (0.4%)
29	135,426 (64.2%)	83,827 (61.9%)	36,737 (27.1%)	8,728 (6.4%)	1,773 (1.3%)	3,540 (2.6%)	182 (0.1%)	639 (0.5%)
30	141,271 (68.8%)	71,675 (50.7%)	50,160 (35.5%)	9,207 (6.5%)	3,601 (2.5%)	5,508 (3.9%)	291 (0.2%)	829 (0.6%)

AIRC: Legislative Grid Map Option 2





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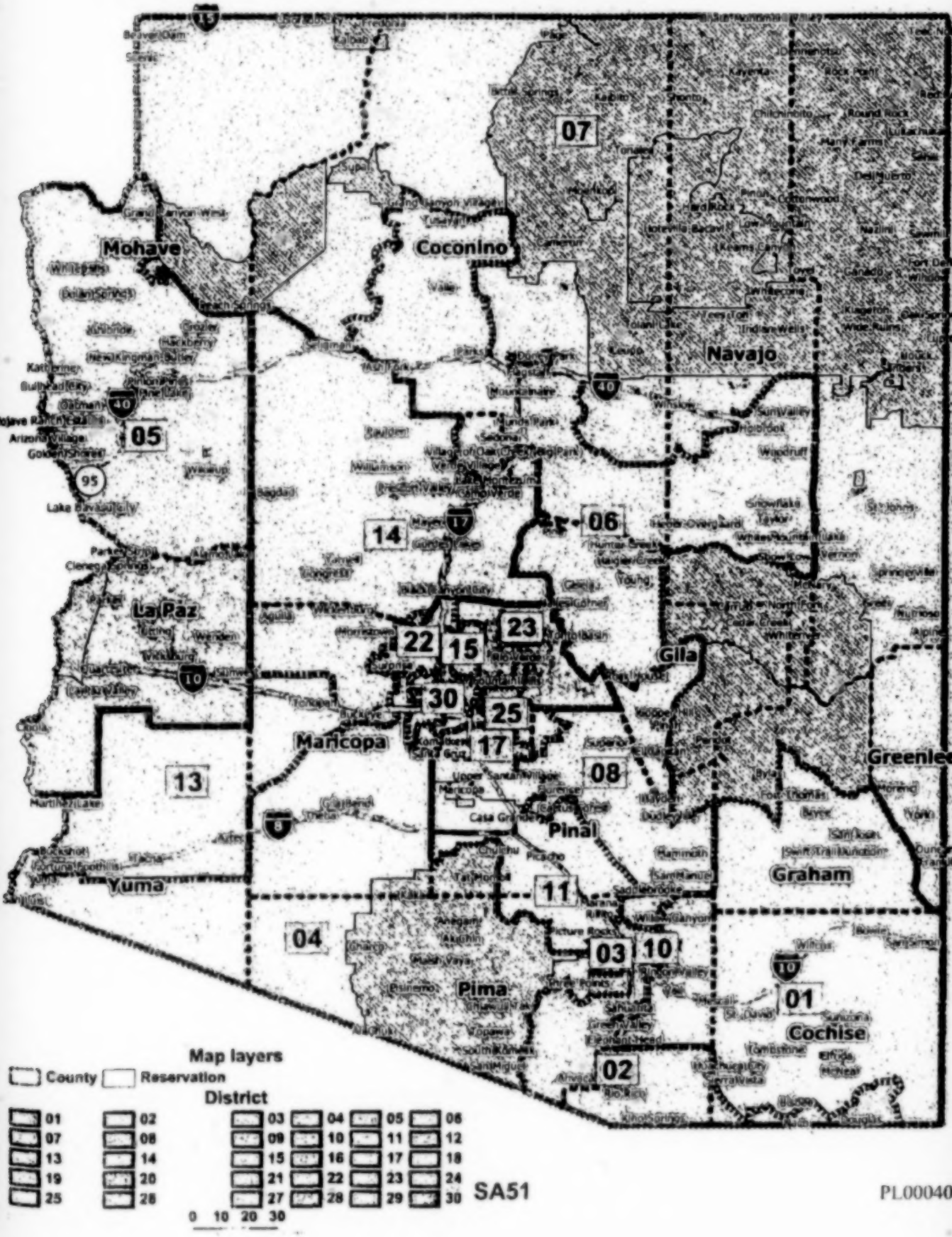
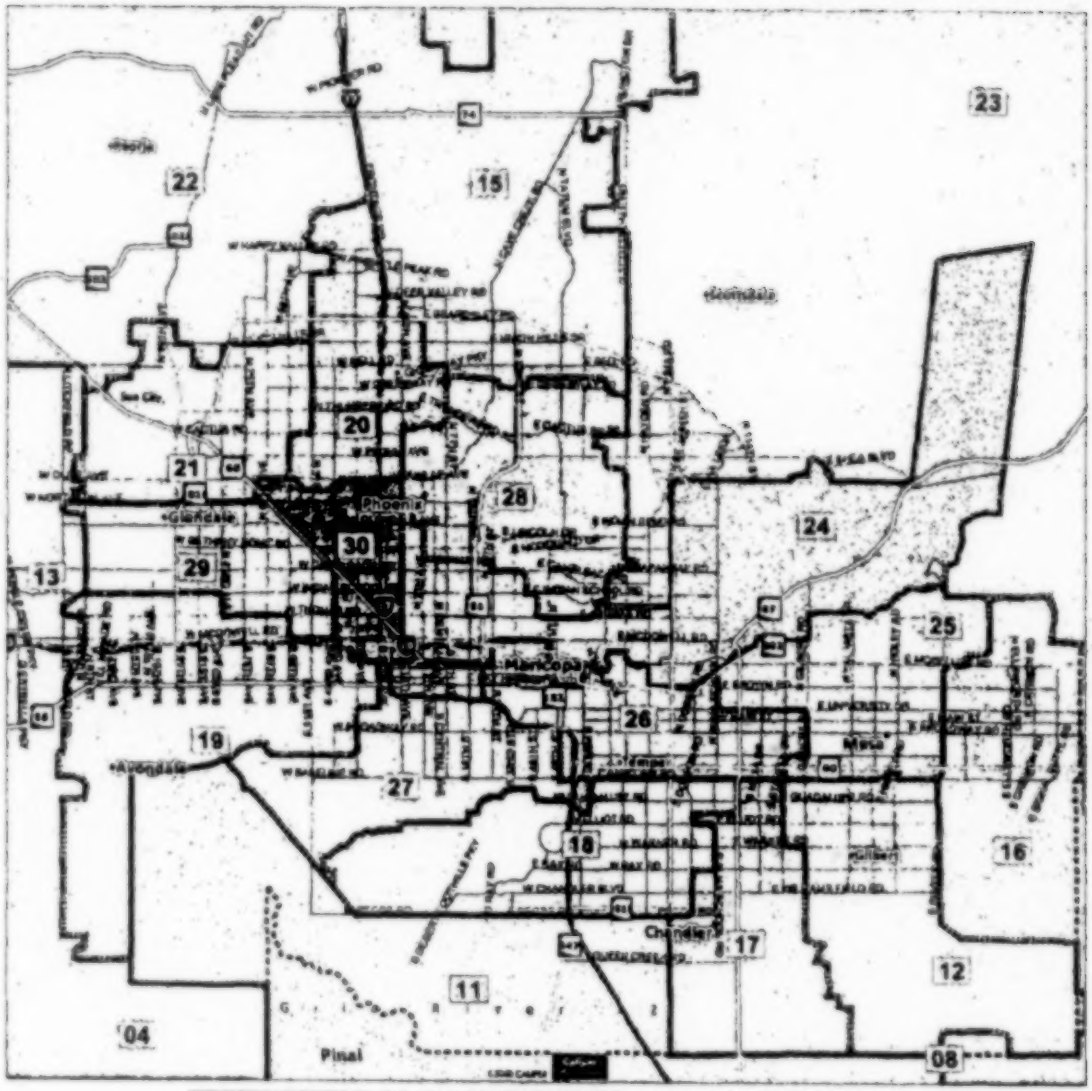
Commission Approved Legislative Draft Map



Commission Approved Legislative Draft Map

Maricopa County



Map layers

County City Reservation

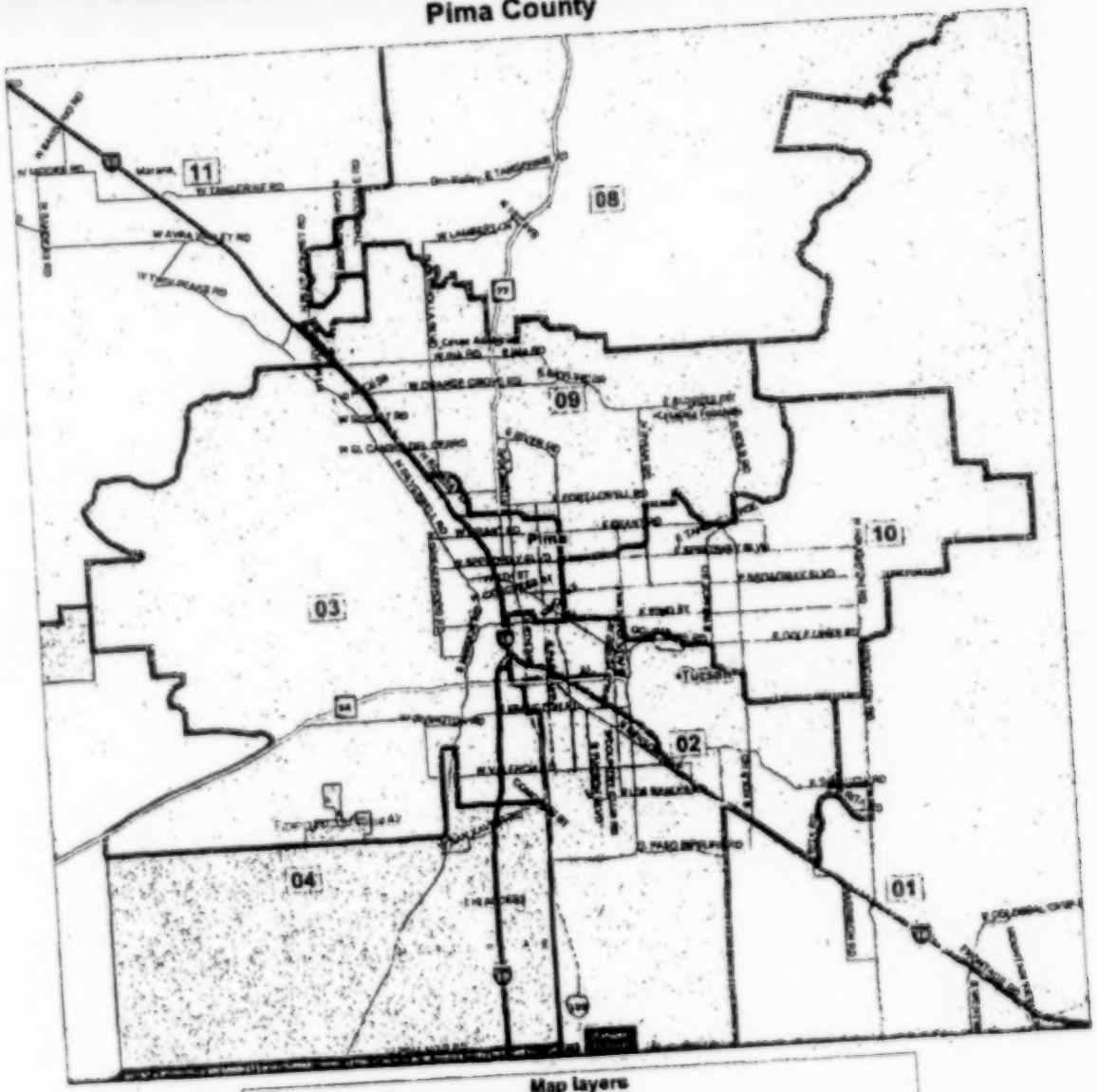
District

01 02 03 04 05 06 07 08 09
10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27
28 29 30

SA52

PL00040

Pima County



Map layers

County City Reservation

District

01 10 19 28 | 02 11 20 29 | 03 12 21 30 | 04 13 22 | 05 14 23 | 06 15 24 | 07 16 25 | 08 17 26 | 09 18 27

0 1 2 3

Commission Approved Legislative Draft Map Compactness and Competitiveness Measures

District	Compactness			Competitiveness Index 1			Competitiveness Index 2			Competitiveness Index 3			All Registration			Reg 2-Way	
	Reock	Perimeter	Polsby-Popper	Ave REP %	Ave DEM %	Diff	Ave REP %	Ave DEM %	Diff	Ave REP %	Ave DEM %	Diff	% REP	% DEM	% OTH	% REP	% DEM
1	0.54	636.09	0.31	64.0%	36.0%	28.1%	62.5%	37.5%	25.1%	62.3%	37.7%	24.5%	42.2%	26.2%	31.6%	61.7%	38.3%
2	0.19	539.21	0.13	39.0%	61.0%	22.1%	38.1%	61.9%	23.7%	35.8%	64.2%	28.4%	20.7%	46.0%	33.3%	31.1%	68.9%
3	0.62	82.88	0.33	32.3%	67.7%	35.4%	31.9%	68.1%	36.3%	30.2%	69.8%	39.7%	18.3%	49.9%	31.9%	26.8%	73.2%
4	0.28	767.23	0.25	49.7%	50.3%	0.6%	48.9%	51.1%	2.2%	46.1%	53.9%	7.7%	26.4%	38.6%	35.0%	40.6%	59.4%
5	0.32	713.68	0.30	69.3%	30.7%	38.5%	65.5%	34.5%	31.1%	64.4%	35.6%	28.7%	39.5%	24.1%	36.4%	62.1%	37.9%
6	0.32	1048.35	0.11	57.9%	42.1%	15.9%	55.4%	44.6%	10.9%	56.0%	44.0%	11.9%	38.4%	29.0%	32.7%	57.0%	43.0%
7	0.31	1784.43	0.17	35.3%	64.7%	29.4%	34.9%	65.1%	30.3%	32.0%	68.0%	36.0%	19.0%	53.6%	27.3%	26.2%	73.8%
8	0.39	499.96	0.17	58.5%	41.5%	16.9%	56.8%	43.2%	13.7%	55.6%	44.4%	11.2%	36.2%	32.0%	31.8%	53.1%	46.9%
9	0.38	58.60	0.33	48.1%	51.9%	3.7%	47.1%	52.9%	5.9%	47.2%	52.8%	5.7%	33.2%	36.9%	30.0%	47.4%	52.6%
10	0.40	55.29	0.35	48.7%	51.3%	2.7%	47.5%	52.5%	5.1%	47.2%	52.8%	5.5%	33.0%	37.4%	29.5%	46.8%	53.2%
11	0.35	402.23	0.22	58.2%	41.8%	16.5%	55.9%	44.1%	11.8%	54.2%	45.8%	8.4%	32.7%	31.7%	35.6%	50.8%	49.2%
12	0.40	54.77	0.40	68.4%	31.6%	36.8%	66.1%	33.9%	32.3%	67.3%	32.7%	34.5%	47.0%	20.6%	32.4%	69.6%	30.4%
13	0.26	453.92	0.28	65.7%	34.3%	31.3%	63.3%	36.7%	26.6%	62.7%	37.3%	25.5%	40.1%	24.9%	35.0%	61.6%	38.4%
14	0.49	628.58	0.29	68.3%	31.7%	36.7%	65.8%	34.2%	31.5%	66.6%	33.4%	33.3%	45.8%	21.2%	32.9%	68.4%	31.6%
15	0.51	86.41	0.33	64.0%	36.0%	28.1%	61.5%	38.5%	23.0%	62.5%	37.5%	25.0%	41.8%	23.1%	35.2%	64.4%	35.6%
16	0.59	75.39	0.43	64.1%	35.9%	28.2%	61.4%	38.6%	22.9%	61.7%	38.3%	23.5%	38.9%	23.5%	37.5%	62.3%	37.7%
17	0.46	42.94	0.44	60.4%	39.6%	20.8%	58.1%	41.9%	16.2%	59.1%	40.9%	18.1%	39.4%	25.3%	35.3%	60.9%	39.1%
18	0.30	52.77	0.37	53.5%	46.5%	7.0%	51.6%	48.4%	3.2%	53.0%	47.0%	6.0%	36.9%	29.3%	33.9%	55.7%	44.3%
19	0.38	66.63	0.31	37.5%	62.5%	25.0%	36.9%	63.1%	26.2%	35.6%	64.4%	28.9%	19.7%	40.2%	40.2%	32.9%	67.1%
20	0.38	41.13	0.39	59.8%	40.2%	19.5%	57.8%	42.2%	15.7%	57.5%	42.5%	15.0%	37.1%	28.2%	34.7%	56.9%	43.1%
21	0.51	40.90	0.47	60.4%	39.6%	20.9%	58.5%	41.5%	17.0%	58.1%	41.9%	16.3%	38.7%	28.7%	32.5%	57.4%	42.6%
22	0.37	157.24	0.24	66.3%	33.7%	32.6%	64.3%	35.7%	28.6%	65.0%	35.0%	30.1%	45.6%	22.9%	31.5%	66.6%	33.4%
23	0.33	265.15	0.23	64.6%	35.4%	29.3%	62.3%	37.7%	24.6%	64.2%	35.8%	28.4%	45.6%	21.4%	33.0%	68.0%	32.0%
24	0.19	107.97	0.18	40.5%	59.5%	18.9%	39.4%	60.6%	21.2%	39.5%	60.5%	21.0%	25.3%	38.4%	36.4%	39.7%	60.3%
25	0.48	44.51	0.40	66.3%	33.7%	32.7%	64.6%	35.4%	29.1%	65.3%	34.7%	30.7%	45.9%	22.7%	31.4%	66.9%	33.1%
26	0.42	35.29	0.43	45.2%	54.8%	9.6%	43.6%	56.4%	12.9%	44.4%	55.6%	11.3%	27.6%	32.4%	40.1%	46.0%	54.0%
27	0.37	58.20	0.30	28.1%	71.9%	43.9%	27.4%	72.6%	45.1%	26.2%	73.8%	47.6%	14.8%	47.6%	37.7%	23.7%	76.3%
28	0.66	48.60	0.43	57.3%	42.7%	14.6%	56.0%	44.0%	12.0%	57.3%	42.7%	14.6%	42.1%	28.2%	29.6%	59.9%	40.1%
29	0.34	34.21	0.50	40.1%	59.9%	19.8%	39.6%	60.4%	20.7%	38.2%	61.8%	23.6%	21.5%	39.4%	39.0%	35.3%	64.7%
30	0.33	29.82	0.44	43.5%	56.5%	13.1%	42.7%	57.3%	14.5%	41.3%	58.7%	17.5%	23.9%	38.6%	37.4%	38.3%	61.7%
		8912.38															

Index 1- Ave % in 2008 and 2010 (all races given equal weight)
Index 2- Ave % in 2008 and 2010 (races given equal weight within year and all years given equal weight)
Index 3- Ave % in 2008, 2010, and Registration (2/3 index 2 and 1/3 major party registration)

COMMISSIONERS
Colleen Coyle Mathis, *Chair*
Scott Day Freeman, *Vice Chair*
José M. Herrera, *Vice Chair*
Linda C. McNulty
Richard P. Stertz

INDEPENDENT REDISTRICTING COMMISSION
1100 West Washington Street
Phoenix, Arizona 85007

Raymond F. Bladine
EXECUTIVE DIRECTOR

CERTIFICATION OF ESTABLISHMENT OF LEGISLATIVE DISTRICTS

By the

ARIZONA INDEPENDENT REDISTRICTING COMMISSION

On January 17, 2012, the Arizona Independent Redistricting Commission met in a public meeting in Phoenix, Arizona and, having applied the provisions of Article IV, Part 2, Section 1 of the Arizona Constitution, certified to the Arizona Secretary of State the establishment of Arizona's thirty legislative districts as set forth in the "Final Legislative Districts," attached hereto, for all state legislative elections through the year 2020.

AFFIRMED by the undersigned, duly appointed chair on behalf of the Arizona Independent Redistricting Commission.

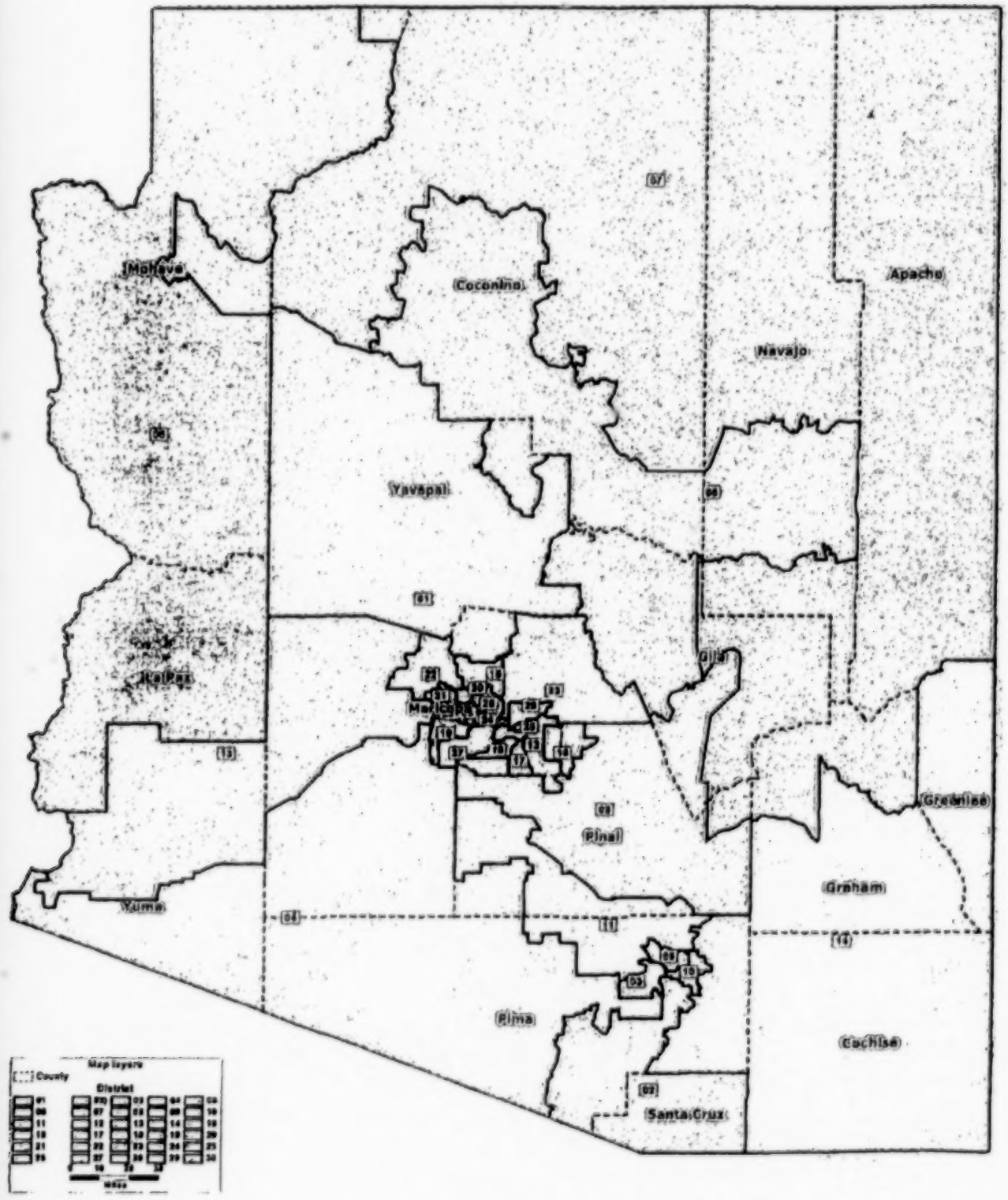
Colleen C. Mathis
COLLEEN MATHIS
Chair

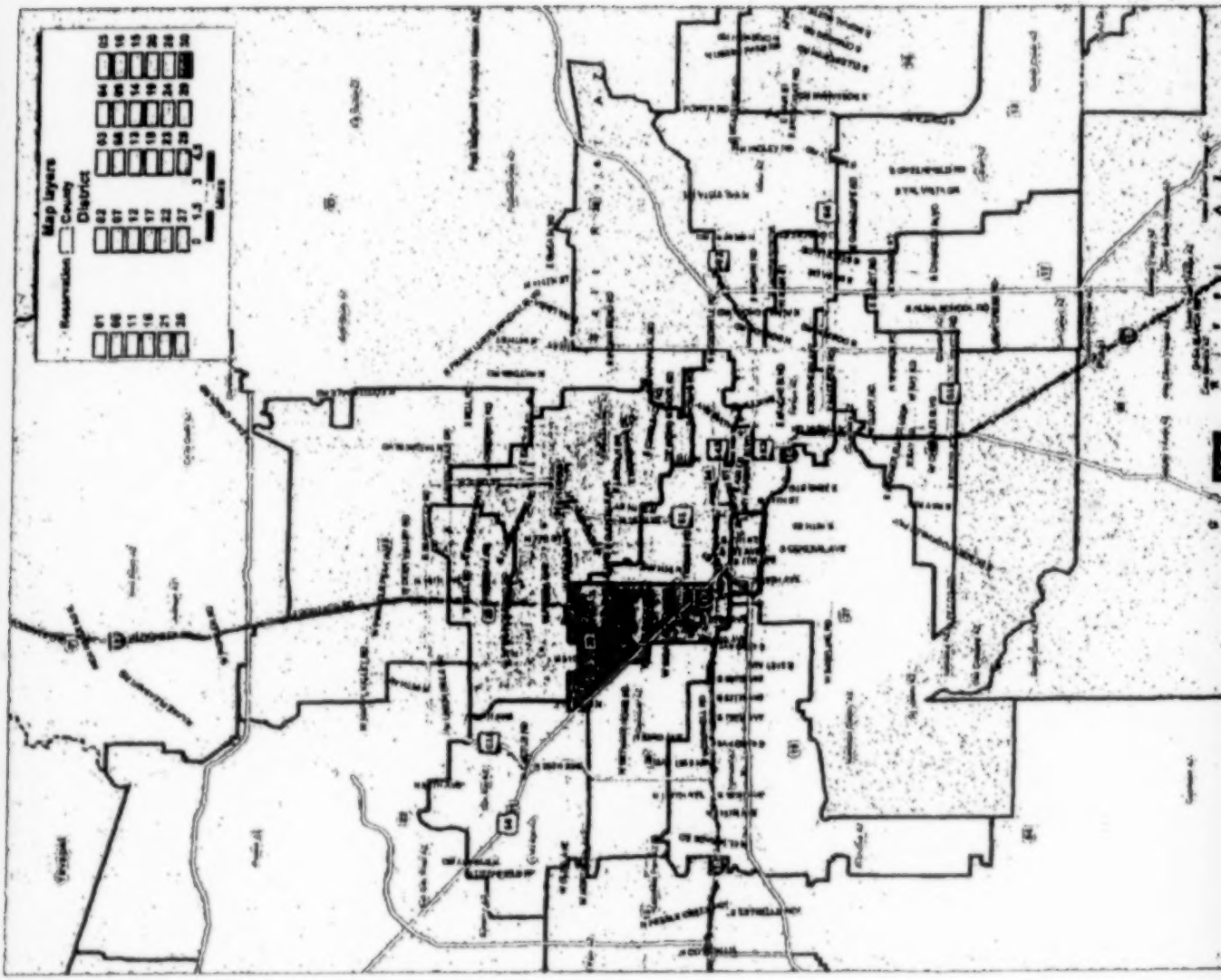
ATTEST to receipt hereof at the Capitol in Phoenix on the 17th day of January, 2012:

Ken Bennett
KEN BENNETT
Secretary of State

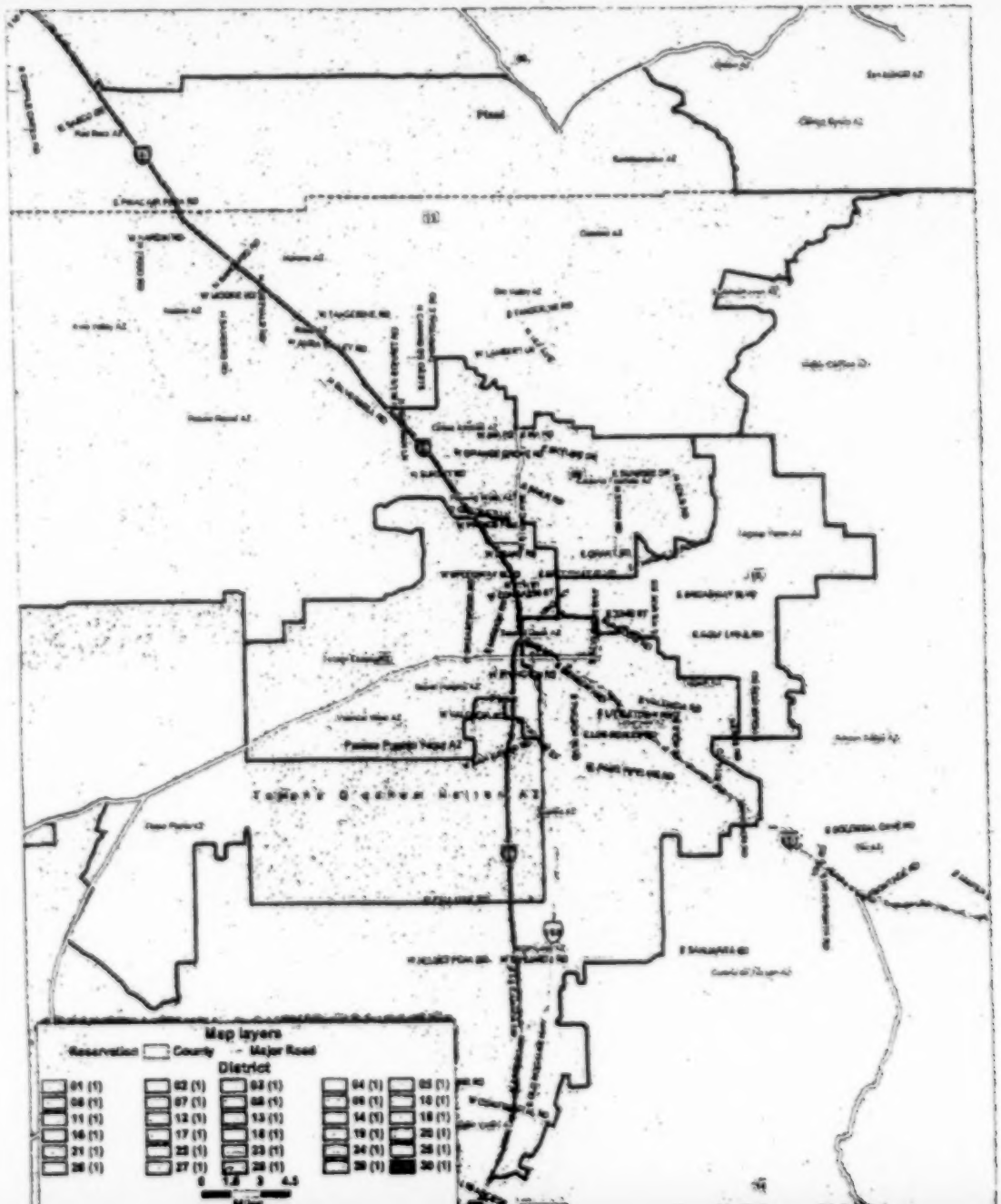
(602) 542-5221 FAX (602) 542-5236 WWW.AZREDISTRICTING.ORG

Final Legislative Districts




Map Layers
County
District

Final Legislative Districts - Approved 1/17/12 - Pima County



Final Legislative Districts - Approved 1/17/12 - Population Breakdown

District	Population	Deviation from Ideal Population		Hispanic Population		Non-Hispanic (NH) White		NH African American		NH Native American		NH Asian		NH Hawaiian		NH Multi-Race and Other	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
1	216,451	3,383	1.6%	24,035	11.1%	181,967	84.1%	1,913	0.9%	1,789	0.8%	2,812	1.3%	205	0.1%	3,730	1.7%
2	204,615	-8,452	-4.0%	121,900	59.6%	69,116	33.8%	5,909	2.9%	2,702	1.3%	2,302	1.1%	191	0.1%	2,495	1.2%
3	204,613	-8,454	-4.0%	115,569	56.5%	67,222	32.9%	6,053	3.0%	7,611	3.7%	4,750	2.3%	189	0.1%	3,219	1.6%
4	204,143	-8,924	-4.2%	123,594	60.5%	58,192	28.5%	5,891	2.9%	11,559	5.7%	2,083	1.0%	198	0.1%	2,626	1.3%
5	219,040	5,972	2.8%	34,316	15.7%	172,081	78.6%	1,822	0.8%	4,609	2.1%	2,106	1.0%	320	0.1%	3,786	1.7%
6	214,244	1,176	0.6%	33,176	15.5%	159,161	74.3%	2,004	0.9%	13,062	6.1%	2,406	1.1%	230	0.1%	4,205	2.0%
7	203,026	-10,041	-4.7%	13,878	6.8%	50,373	24.8%	914	0.5%	133,830	65.9%	757	0.4%	78	0.0%	3,196	1.6%
8	208,422	-4,645	-2.2%	72,456	34.8%	104,152	50.0%	9,211	4.4%	14,534	7.0%	3,042	1.5%	1,261	0.6%	3,766	1.8%
9	213,224	156	0.1%	46,661	21.9%	146,025	68.5%	5,917	2.8%	2,065	1.0%	7,573	3.6%	317	0.1%	4,666	2.2%
10	211,073	-1,994	-0.9%	49,128	23.3%	138,868	65.8%	9,556	4.5%	1,807	0.9%	6,076	2.9%	425	0.2%	5,213	2.5%
11	213,377	309	0.1%	48,249	22.6%	145,091	68.0%	7,160	3.4%	3,108	1.5%	5,124	2.4%	273	0.1%	4,372	2.0%
12	221,735	8,667	4.1%	34,578	15.6%	162,476	73.3%	6,797	3.1%	1,385	0.6%	10,823	4.9%	377	0.2%	5,299	2.4%
13	211,701	-1,366	-0.6%	66,106	31.2%	126,954	60.0%	7,530	3.6%	1,757	0.8%	4,990	2.4%	299	0.1%	4,065	1.9%
14	217,693	4,625	2.2%	67,082	30.8%	132,552	60.9%	7,070	3.2%	1,851	0.9%	3,654	1.7%	506	0.2%	4,978	2.3%
15	214,941	1,873	0.9%	22,035	10.3%	172,110	80.1%	4,086	1.9%	1,359	0.6%	10,720	5.0%	254	0.1%	4,377	2.0%
16	220,157	7,089	3.3%	36,222	16.5%	169,113	76.8%	4,816	2.2%	1,776	0.8%	3,734	1.7%	363	0.2%	4,133	1.9%
17	221,174	8,106	3.8%	47,472	21.5%	140,660	63.6%	9,238	4.2%	2,221	1.0%	16,160	7.3%	362	0.2%	5,061	2.3%
18	218,677	5,609	2.6%	31,641	14.5%	153,658	70.3%	10,190	4.7%	3,190	1.5%	13,997	6.4%	549	0.3%	5,452	2.5%
19	207,088	-5,979	-2.8%	134,862	65.1%	45,004	21.7%	16,061	7.8%	2,350	1.1%	4,855	2.3%	365	0.2%	3,591	1.7%
20	218,167	5,099	2.4%	46,856	21.5%	148,114	67.9%	8,325	3.8%	2,947	1.4%	6,714	3.1%	373	0.2%	4,838	2.2%
21	216,242	3,174	1.5%	53,053	24.5%	143,644	66.4%	8,819	4.1%	1,562	0.7%	4,485	2.1%	307	0.1%	4,372	2.0%
22	215,912	2,844	1.3%	22,375	10.4%	175,513	81.3%	5,822	2.7%	839	0.4%	7,117	3.3%	276	0.1%	3,970	1.8%
23	213,451	383	0.2%	12,212	5.7%	186,190	87.2%	2,833	1.3%	1,616	0.8%	6,889	3.2%	168	0.1%	3,543	1.7%
24	206,659	-6,408	-3.0%	85,381	41.3%	92,695	44.9%	13,046	6.3%	6,716	3.2%	4,291	2.1%	330	0.2%	4,200	2.0%
25	220,795	7,727	3.6%	43,023	19.5%	160,255	72.6%	5,837	2.6%	3,655	1.7%	3,397	1.5%	536	0.2%	4,092	1.9%
26	213,659	591	0.3%	82,251	38.5%	96,917	45.4%	11,034	5.2%	10,155	4.8%	7,254	3.4%	1,031	0.5%	5,017	2.3%
27	204,195	-8,872	-4.2%	116,568	57.1%	40,058	19.6%	29,982	14.7%	7,628	3.7%	5,757	2.8%	436	0.2%	3,766	1.8%
28	218,713	5,645	2.6%	48,111	22.0%	152,121	69.6%	5,919	2.7%	2,958	1.4%	5,492	2.5%	244	0.1%	3,868	1.8%
29	211,067	-2,000	-0.9%	142,923	67.7%	45,815	21.7%	12,402	5.9%	2,119	1.0%	4,250	2.0%	184	0.1%	3,374	1.6%
30	207,763	-5,304	-2.5%	119,436	57.5%	59,550	28.7%	12,944	6.2%	4,666	2.2%	6,899	3.3%	312	0.2%	3,956	1.9%

Final Legislative Districts - Approved 1/17/12 - Voting Age Population Breakdown

District	Voting Age Pop	Hispanic Voting Age Pop		Non Hispanic (NH) White Voting Age		NH African American		NH Native American Voting		NH Asian Voting Age Pop		NH Hawaiian Voting Age		NH Multi-Race and	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%
1	170,136	15,190	8.9%	147,538	86.7%	1,457	0.9%	1,386	0.8%	2,189	1.3%	174	0.1%	2,202	1.3%
2	148,925	78,653	52.8%	60,416	40.6%	4,539	3.0%	1,933	1.3%	1,881	1.3%	152	0.1%	1,351	0.9%
3	154,745	77,451	50.1%	60,946	39.4%	4,632	3.0%	5,111	3.3%	4,225	2.7%	139	0.1%	2,241	1.4%
4	141,485	78,816	55.7%	47,013	33.2%	4,529	3.2%	7,926	5.6%	1,599	1.1%	158	0.1%	1,444	1.0%
5	174,701	22,009	12.6%	143,620	82.2%	1,424	0.8%	3,291	1.9%	1,773	1.0%	246	0.1%	2,338	1.3%
6	169,965	21,327	12.5%	132,925	78.2%	1,639	1.0%	9,210	5.4%	2,092	1.2%	186	0.1%	2,586	1.5%
7	139,259	8,545	6.1%	40,013	28.7%	778	0.6%	87,851	63.1%	590	0.4%	61	0.0%	1,421	1.0%
8	153,405	48,030	31.3%	81,918	53.4%	7,014	4.6%	10,829	7.1%	2,524	1.6%	1,141	0.7%	1,949	1.3%
9	172,120	31,504	18.3%	125,635	73.0%	4,346	2.5%	1,550	0.9%	6,038	3.5%	222	0.1%	2,825	1.6%
10	166,639	32,487	19.5%	117,413	70.5%	7,195	4.3%	1,339	0.8%	4,970	3.0%	326	0.2%	2,909	1.7%
11	160,257	29,474	18.4%	117,449	73.3%	4,935	3.1%	2,131	1.3%	3,890	2.4%	185	0.1%	2,193	1.4%
12	147,754	20,504	13.9%	111,743	75.6%	4,497	3.0%	930	0.6%	7,639	5.2%	258	0.2%	2,183	1.5%
13	156,650	40,759	26.0%	103,306	65.9%	5,333	3.4%	1,363	0.9%	3,675	2.3%	218	0.1%	1,996	1.3%
14	163,012	43,999	27.0%	105,951	65.0%	5,448	3.3%	1,479	0.9%	3,034	1.9%	388	0.2%	2,713	1.7%
15	162,579	13,970	8.6%	133,974	82.4%	3,037	1.9%	973	0.6%	8,176	5.0%	193	0.1%	2,256	1.4%
16	164,719	21,337	13.0%	133,781	81.2%	3,353	2.0%	1,260	0.8%	2,806	1.7%	245	0.1%	1,937	1.2%
17	161,935	29,525	18.2%	110,213	68.1%	6,526	4.0%	1,515	0.9%	11,568	7.1%	269	0.2%	2,319	1.4%
18	168,966	21,459	12.7%	124,070	73.4%	7,413	4.4%	2,280	1.3%	10,644	6.3%	384	0.2%	2,716	1.6%
19	133,549	80,622	60.4%	35,275	26.4%	10,325	7.7%	1,639	1.2%	3,645	2.7%	278	0.2%	1,765	1.3%
20	166,570	29,476	17.7%	120,748	72.5%	6,029	3.6%	2,102	1.3%	5,315	3.2%	268	0.2%	2,632	1.6%
21	164,688	32,423	19.7%	119,158	72.4%	6,140	3.7%	1,098	0.7%	3,531	2.1%	204	0.1%	2,134	1.3%
22	167,688	13,708	8.2%	141,890	84.6%	4,149	2.5%	586	0.3%	5,277	3.1%	206	0.1%	1,872	1.1%
23	176,271	8,631	4.9%	156,821	89.0%	2,284	1.3%	1,189	0.7%	5,263	3.0%	121	0.1%	1,962	1.1%
24	157,984	53,875	34.1%	82,855	52.4%	9,883	6.3%	4,861	3.1%	3,635	2.3%	237	0.2%	2,638	1.7%
25	167,944	26,254	15.6%	129,933	77.4%	4,217	2.5%	2,399	1.4%	2,711	1.6%	378	0.2%	2,052	1.2%
26	164,423	52,537	32.0%	85,964	52.3%	8,347	5.1%	6,994	4.3%	6,575	4.0%	705	0.4%	3,301	2.0%
27	140,329	73,051	52.1%	34,090	24.3%	21,210	15.1%	5,177	3.7%	4,502	3.2%	312	0.2%	1,987	1.4%
28	169,608	30,085	17.7%	126,340	74.5%	4,391	2.6%	2,136	1.3%	4,405	2.6%	174	0.1%	2,077	1.2%
29	135,426	83,827	61.9%	36,737	27.1%	8,345	6.2%	1,459	1.1%	3,193	2.4%	135	0.1%	1,730	1.3%
30	141,271	71,675	50.7%	50,160	35.5%	8,834	6.3%	3,210	2.3%	4,952	3.5%	237	0.2%	2,203	1.6%

Final Legislative Districts - Approved 1/17/12 - Compactness and Competitiveness Measures

District	Compactness			Competitiveness Index 2			Competitiveness Index 3			Competitiveness Index 4			Competitiveness Index 5		
	Reock	Perimeter	Polsby Popper	Ave. REP %	Ave. DEM %	Diff	Ave. REP %	Ave. DEM %	Diff	Ave. REP %	Ave. DEM %	Diff	Ave. REP %	Ave. DEM %	Diff
1	0.46	545.11	0.34	66.4%	33.6%	32.8%	67.6%	32.4%	35.2%	67.2%	32.8%	34.4%	67.8%	32.2%	35.6%
2	0.51	336.82	0.28	42.8%	57.2%	14.4%	40.8%	59.2%	18.4%	45.9%	54.1%	8.2%	44.1%	55.9%	11.8%
3	0.48	69.83	0.35	31.0%	69.0%	38.0%	29.4%	70.6%	41.2%	35.0%	65.0%	30.0%	33.2%	66.8%	33.6%
4	0.29	782.51	0.24	45.5%	54.5%	9.0%	42.9%	57.1%	14.2%	48.6%	51.4%	2.8%	46.4%	53.6%	7.2%
5	0.25	1027.87	0.20	65.6%	34.4%	31.2%	64.6%	35.4%	29.2%	65.4%	34.6%	30.8%	64.9%	35.1%	29.8%
6	0.32	1072.94	0.11	54.7%	45.3%	9.4%	55.3%	44.7%	10.6%	55.9%	44.1%	11.8%	56.0%	44.0%	12.0%
7	0.40	1781.57	0.15	36.3%	63.7%	27.4%	32.9%	67.1%	34.2%	39.6%	60.4%	20.8%	37.0%	63.0%	26.0%
8	0.37	482.89	0.23	51.3%	48.7%	2.6%	48.5%	51.5%	3.0%	53.1%	46.9%	6.2%	51.1%	48.9%	2.2%
9	0.38	58.26	0.34	46.7%	53.3%	6.6%	46.9%	53.1%	6.2%	49.5%	50.5%	1.0%	49.1%	50.9%	1.8%
10	0.47	72.46	0.24	48.0%	52.0%	4.0%	47.8%	52.2%	4.4%	50.7%	49.3%	1.4%	50.1%	49.9%	0.2%
11	0.26	376.07	0.17	58.7%	41.3%	17.4%	58.5%	41.5%	17.0%	60.3%	39.7%	20.6%	59.9%	40.1%	19.8%
12	0.34	68.30	0.35	66.1%	33.9%	32.2%	67.2%	32.8%	34.4%	68.3%	31.7%	36.6%	68.6%	31.4%	37.2%
13	0.29	509.56	0.28	64.7%	35.3%	29.4%	63.8%	36.2%	27.6%	65.9%	34.1%	31.8%	65.1%	34.9%	30.2%
14	0.44	676.02	0.34	60.6%	39.4%	21.2%	59.3%	40.7%	18.6%	61.7%	38.3%	23.4%	60.7%	39.3%	21.4%
15	0.39	75.37	0.33	61.5%	38.5%	23.0%	62.5%	37.5%	25.0%	63.8%	36.2%	27.6%	64.0%	36.0%	28.0%
16	0.54	76.18	0.43	61.2%	38.8%	22.4%	61.5%	38.5%	23.0%	63.2%	36.8%	26.4%	63.0%	37.0%	26.0%
17	0.48	40.05	0.53	57.9%	42.1%	15.8%	58.8%	41.2%	17.6%	60.8%	39.2%	21.6%	60.8%	39.2%	21.6%
18	0.23	50.22	0.30	51.5%	48.5%	3.0%	52.9%	47.1%	5.8%	55.0%	45.0%	10.0%	55.1%	44.9%	10.2%
19	0.38	69.22	0.28	37.1%	62.9%	25.8%	35.8%	64.2%	28.4%	43.6%	56.4%	12.8%	41.5%	58.5%	17.0%
20	0.37	37.31	0.39	56.6%	43.4%	13.2%	56.4%	43.6%	12.8%	59.4%	40.6%	18.8%	58.7%	41.3%	17.4%
21	0.62	39.88	0.51	57.8%	42.2%	15.6%	57.4%	42.6%	14.8%	59.9%	40.1%	19.8%	59.2%	40.8%	18.4%
22	0.49	109.42	0.34	63.9%	36.1%	27.8%	64.6%	35.4%	29.2%	64.8%	35.2%	29.6%	65.0%	35.0%	30.0%
23	0.42	228.33	0.30	62.0%	38.0%	24.0%	63.9%	36.1%	27.8%	63.6%	36.4%	27.2%	64.4%	35.6%	28.8%
24	0.25	43.78	0.25	38.4%	61.6%	23.2%	38.5%	61.5%	23.0%	43.0%	57.0%	14.0%	42.2%	57.8%	15.6%
25	0.30	57.85	0.29	64.6%	35.4%	29.2%	65.3%	34.7%	30.6%	66.6%	33.4%	33.2%	66.7%	33.3%	33.4%
26	0.27	85.80	0.21	41.9%	58.1%	16.2%	42.6%	57.4%	14.8%	47.1%	52.9%	5.8%	46.5%	53.5%	7.0%
27	0.45	121.81	0.22	27.4%	72.6%	45.2%	26.1%	73.9%	47.8%	32.1%	67.9%	35.8%	30.4%	69.6%	39.2%
28	0.56	50.69	0.38	54.8%	45.2%	9.6%	55.8%	44.2%	11.6%	57.6%	42.4%	15.2%	57.6%	42.4%	15.2%
29	0.33	37.11	0.42	39.4%	60.6%	21.2%	38.0%	62.0%	24.0%	45.0%	55.0%	10.0%	43.1%	56.9%	13.8%
30	0.34	31.10	0.41	42.6%	57.4%	14.8%	41.2%	58.8%	17.6%	47.2%	52.8%	5.6%	45.4%	54.6%	9.2%
	9014.31														

Index 2: Average of 2008 and 2010, each year weighted equally
Index 3: Average of 2008, 2010 and % of major party Registration, each of the three components weighted equally
Index 4: Average of 2004, 2006, 2008 and 2010, each year weighted equally
Index 5: Average of 2004, 2006, 2008, 2010 and % of major party registration, each component weighted equally

District	Competitiveness Index 6			Competitiveness Index 7			Competitiveness Index 8			Competitiveness Index 9			All Registration			Reg 2-Way	
	Ave. REP %	Ave. DEM %	Diff	Ave. REP %	Ave. DEM %	Diff	Ave. REP %	Ave. DEM %	Diff	Ave. REP %	Ave. DEM %	Diff	% REP	% DEM	% OTH	% REP	% DEM
1	65.9%	34.1%	31.8%	66.7%	33.3%	33.4%	65.8%	34.2%	31.6%	66.9%	33.1%	33.8%	47.1%	20.2%	32.7%	70.0%	30.0%
2	43.6%	56.4%	12.8%	42.2%	57.8%	15.6%	43.2%	56.8%	13.6%	41.6%	58.4%	16.8%	24.5%	42.3%	33.2%	36.7%	63.3%
3	31.8%	68.2%	36.4%	30.6%	69.4%	38.8%	31.3%	68.7%	37.4%	30.0%	70.0%	40.0%	17.7%	50.1%	32.2%	26.1%	73.9%
4	46.3%	53.7%	7.4%	44.6%	55.4%	10.8%	45.8%	54.2%	8.4%	43.8%	56.2%	12.4%	24.5%	40.4%	35.1%	37.8%	62.2%
5	64.2%	35.8%	28.4%	63.9%	36.1%	27.8%	64.5%	35.5%	29.0%	64.1%	35.9%	28.2%	39.7%	23.7%	36.6%	62.6%	37.4%
6	53.7%	46.3%	7.4%	54.3%	45.7%	8.6%	53.8%	46.2%	7.6%	54.5%	45.5%	9.0%	37.8%	29.0%	33.1%	56.6%	43.4%
7	37.1%	62.9%	25.8%	34.9%	65.1%	30.2%	36.5%	63.5%	27.0%	34.0%	66.0%	32.0%	19.3%	53.8%	26.9%	26.4%	73.6%
8	51.4%	48.6%	2.8%	49.7%	50.3%	0.6%	51.1%	48.9%	2.2%	49.0%	51.0%	2.0%	28.5%	38.1%	33.4%	42.8%	57.2%
9	46.7%	53.3%	6.6%	46.8%	53.2%	6.4%	46.4%	53.6%	7.2%	46.6%	53.4%	6.8%	33.2%	37.0%	29.9%	47.3%	52.7%
10	48.0%	52.0%	4.0%	47.9%	52.1%	4.2%	47.8%	52.2%	4.4%	47.7%	52.3%	4.6%	33.5%	37.0%	29.5%	47.5%	52.5%
11	58.4%	41.6%	16.8%	58.3%	41.7%	16.6%	58.3%	41.7%	16.6%	58.2%	41.8%	16.4%	38.9%	27.9%	33.2%	58.2%	41.8%
12	66.6%	33.4%	33.2%	67.2%	32.8%	34.4%	66.2%	33.8%	32.4%	67.0%	33.0%	34.0%	47.0%	20.6%	32.4%	69.5%	30.5%
13	64.7%	35.3%	29.4%	64.1%	35.9%	28.2%	64.5%	35.5%	29.0%	63.8%	36.2%	27.6%	41.2%	25.3%	33.6%	62.0%	38.0%
14	60.5%	39.5%	21.0%	59.8%	40.2%	19.6%	60.3%	39.7%	20.6%	59.5%	40.5%	19.0%	39.0%	29.7%	31.3%	56.8%	43.2%
15	62.0%	38.0%	24.0%	62.5%	37.5%	25.0%	61.5%	38.5%	23.0%	62.3%	37.7%	24.6%	42.8%	23.5%	33.8%	64.6%	35.4%
16	61.5%	38.5%	23.0%	61.6%	38.4%	23.2%	61.1%	38.9%	22.2%	61.4%	38.6%	22.8%	38.7%	23.6%	37.7%	62.1%	37.9%
17	58.8%	41.2%	17.6%	59.2%	40.8%	18.4%	58.2%	41.8%	16.4%	58.8%	41.2%	17.6%	39.3%	25.4%	35.3%	60.7%	39.3%
18	52.3%	47.7%	4.6%	53.0%	47.0%	6.0%	51.7%	48.3%	3.4%	52.7%	47.3%	5.4%	36.9%	29.3%	33.7%	55.7%	44.3%
19	41.2%	58.8%	17.6%	39.6%	60.4%	20.8%	39.6%	60.4%	20.8%	38.0%	62.0%	24.0%	19.8%	39.9%	40.2%	33.2%	66.8%
20	57.5%	42.5%	15.0%	57.2%	42.8%	14.4%	56.9%	43.1%	13.8%	56.7%	43.3%	13.4%	36.8%	28.8%	34.4%	56.1%	43.9%
21	58.3%	41.7%	16.6%	58.0%	42.0%	16.0%	57.9%	42.1%	15.8%	57.6%	42.4%	15.2%	37.7%	28.9%	33.4%	56.6%	43.4%
22	63.2%	36.8%	26.4%	63.8%	36.2%	27.6%	63.2%	36.8%	26.4%	63.9%	36.1%	27.8%	44.9%	23.0%	32.1%	66.1%	33.9%
23	61.8%	38.2%	23.6%	62.9%	37.1%	25.8%	61.6%	38.4%	23.2%	63.1%	36.9%	26.2%	45.2%	21.7%	33.1%	67.6%	32.4%
24	40.1%	59.9%	19.8%	39.8%	60.2%	20.4%	39.2%	60.8%	21.6%	39.1%	60.9%	21.8%	24.8%	39.1%	36.1%	38.8%	61.2%
25	65.1%	34.9%	30.2%	65.5%	34.5%	31.0%	64.6%	35.4%	29.2%	65.2%	34.8%	30.4%	45.9%	22.7%	31.4%	66.9%	33.1%
26	44.3%	55.7%	11.4%	44.2%	55.8%	11.6%	43.2%	56.8%	13.6%	43.4%	56.6%	13.2%	25.8%	33.0%	41.1%	43.9%	56.1%
27	29.3%	70.7%	41.4%	28.1%	71.9%	43.8%	28.5%	71.5%	43.0%	27.2%	72.8%	45.6%	14.6%	47.8%	37.6%	23.4%	76.6%
28	55.4%	44.6%	10.8%	55.9%	44.1%	11.8%	54.8%	45.2%	9.6%	55.6%	44.4%	11.2%	40.2%	29.2%	30.6%	57.9%	42.1%
29	43.0%	57.0%	14.0%	41.4%	58.6%	17.2%	41.5%	58.5%	17.0%	39.9%	60.1%	20.2%	21.5%	39.5%	39.0%	35.2%	64.8%
30	45.0%	55.0%	10.0%	43.7%	56.3%	12.6%	43.9%	56.1%	12.2%	42.5%	57.5%	15.0%	24.0%	38.6%	37.4%	38.3%	61.7%

Index 6: Average of 2004, 2006, 2008 and 2010, each year weighted equally, Races where one candidate received more than 60% of the 2-way vote removed

Index 7: Average of 2004, 2006, 2008, 2010, and major party registration, each year weighted equally, Races where one candidate received more than 60% removed

Index 8: 1/3 2010, 1/3 2008, and 1/6 2004, and 1/6 2006, Races where one candidate received more than 60% of the 2-way vote removed

Index 9: 1/4 2010, 1/4 2008, 1/8 2006, 1/8 2004, and 1/4 major party registration, Races where one candidate received more than 60% of the 2-way vote removed

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